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KINGSTON, ONTARIO

CALENDAR

OF

Queen's College and University

KINGSTON, CANADA,

FOR THE YEAR 1904-5.

PARTS I. and II.

INCORPORATED BY ROYAL CHARTER, A.D. 1841.

KINGSTON:
PRINTED FOR THE UNIVERSITY BY THE BRITISH WHIG.
1904.

1904/5

CONTENTS.

PART I.

PAGE
Academic Year 5
University Officers 6
    Board of Trustees 6
    University Council 7
Staff—Theology 9
    Arts 9
    Practical Science 10
    Medicine 11
    Law 12
    Other Officers 13
Class Time-Table—Arts 14
    Theology 16
Matriculation Time-Table, 1904 17
Pass Supplementary Examinations, 1904 17
Pass Examinations, Arts and Theology, 1905 18
General Announcements 19
Fees 20
Faculty of Arts, Pass Matriculation 23
    Matriculation, Junior 26
    " Senior 31
Matriculation Scholarships in Arts 38
Prizes, Scholarships and Medals in Arts and Practical Science 41
Scholarships in Theology 45
Prizes and Scholarships in Medicine 47
Ontario Teachers' Certificates 48
Extra-Mural Students 49
Percentage Required 50
Pass Courses 50
B.A., M.D. Course 52
Honour Courses 53
Specialist Courses 55
Subjects for Study for B.A. and M.A 59
    Latin 59

CONTENTS—(Continued).

Page
Greek 61
Philology and Sanscript 62
German, French, Italian and Spanish 63
English 69
Elocution 73
History 75
Philosophy 79
Political Science 83
Mathematics 85
Physics 89
Botany 92
Animal Biology 93
Chemistry 96
Mineralogy 101
Geology 105
Degrees of Ph.D., D.Sc. and LL.D 109
Faculty of Theology, General Announcement 116
Matriculation 117
Subjects of Study 117
Degree of B.D. 120
Faculty of Medicine 124
Faculty of Law 127
Faculty of Practical Science 129
School of Mining 129
Societies and Committees 136

PART II.

University Medals, 1901-1902 143
"   Prizes 143
"   Scholarships 144
Graduates, 1903-1904 145
Pass Lists, 1904—Arts 149
Practical Science 160
Theology 167
Medicine 170
Honour Lists, Arts 1904 157
Law 159

68790

CONTENTS—(Continued). PAGE.

Lists of Students, 1903-1904—Arts. 176
Post Graduates 186
Lists of Students, 1903-1904—General 187
Theology 188
Practical Science 188
Medicine 191
Arts Honour List from 1877 196
List of Graduates 209
" " Alumni 267
Alumni Association 276
Additions to the Library 278
Benefactions 278
Endowment of Chairs and Tutorships 279
Annual and other Contributiors 280

ACADEMIC YEAR.

1904.

May 23—Notice of intention to compete for Matriculation Scholarships to be given in writing to the Registrar.
July 2—Matriculation examinations begin at the University and every Collegiate Institute and High School in Ontario.
Sept. 1—Notice of intention to appear at Supplemental Matriculation or Pass examinations to be given in writing to the Registrar.
" 13—Arts and Science Supplemental Pass examinations begin.
" 15—Supplemental Matriculation examinations begin.
" 22—Medical Supplemental examinations begin.
" 28—Classes in Arts, Applied Science, Medicine and Mining open.
Oct. 5—Holiday for Athletic Games.
" 16—University Day.
" 18—Candidates for B.D., Supplemental and Matriculation examinations in Theology must give notice of their intention to appear.
" 27—B.D. Supplemental and Matriculation examinations in Theology begin.
Nov. 1—Classes in Theology open.
Dec. 17—Christmas holidays begin.

1905.

Jan. 3—Classes re-open.
Mar. 8—Holiday.
Mar. 16—Class work in Medicine closes only for those presenting themselves for M.D., C.M.
" 19—Time expires for receiving Theses for Ph.D., D.Sc., and Essays for University Prizes.
" 19—Examinations in Medicine begin.
" 29—Class work in Arts, Applied Science and Mining closes.
April 3—Examinations in Arts, Applied Science and Mining begin.
" 7—Medical Convocation.
" 7—Class work in Theology closes.
" 8—Class work in Medicine resumes.
" 13—Examinations in Theology begin.
" 24—Statutory Meeting of Senate for conferring Degrees,&c.
" 26—Convocation for distributing prizes, announcing Honours and laureating graduates in Arts, Science and Theology.
May 13—Class work in Medicine closes for those taking the eight months' course.

UNIVERSITY OFFICERS.

BOARD OF TRUSTEES.

Retire April 1908.	Donald M. McIntyre, B.A.	Kingston.
Retire April 1907	Rev. W. T. Herridge, D.D.	Ottawa.
	Rev. D. R. Drummond, M.A.	St. Thomas.
	Rev. J. Edgar Hill, D.D.	Montreal.
	Sheriff Maclennan, B.A.	Lindsay.
	Sir Sandford Fleming, K.C.M.G., LL.D.	Ottawa.
	D. B. MacLennan, M.A., K.C.	Cornwall.
	P. C. McGregor, B.A., LL.D.	Almonte.
Retire April 1906	Rev. Thomas Wardrope, D.D.	Guelph.
	Rev. Robert Campbell, M.A., D.D.	Montreal.
	James Douglas, B.A., LL.D.	New York.
	And. T. Drummond, B.A. LL.D.	Toronto.
	Hon. E. H. Bronson	Ottawa.
	Matthew Leggat	Hamilton.
	George Gillies, B.A.	Toronto.
Retire April 1905	Rev. G. M. Milligan, B.A., D.D., LL.D	Toronto.
	Rev. Robert Campbell, D.Sc.	Perth.
	Hon. Mr. Justice Maclennan, LL.D.	Toronto.
	Francis H. Chrysler, B.A., K.C.	Ottawa.
	J. Roberts Allan	Ottawa.
	H. A. Calvin, M.P.	Kingston.
Retire April 1904	Rev. M. Macgillivray, M.A., D.D	Kingston.
	Rev. John Mackie, M.A., D.D	Kingston.
	Rev. M. W. Maclean, M.A.	Belleville.
	W. C. Caldwell, B.A., M.P.P.	Lanark.
	G. M. Macdonnell, B.A., K.C.	Kingston.
	Hugh Waddell	Peterboro.
	John McIntyre, M.A., K.C.	Kingston.
	R. Vashon Rogers, B.A., LL.D., K.C.	Kingston.

Hon. Mr. Justice Maclennan, LL.D.	Chairman.
Geo. Y. Chown, B.A.	Secretary-Treasurer.

The Annual Meeting of the Board will be held in the Senate Chamber on the evening of Wednesday, April 26th.

UNIVERSITY COUNCIL.

The Council consists of the Chancellor, the Trustees, the members of the Senate, and an equal number of elective members.

The Chancellor is elected by the Council, except when two or more candidates are nominated, in which case the election is by registered graduates and alumni. He holds office for three years, and, as highest officer of the University, presides at meetings of the Council and Convocation, and at statutory meetings of Senate. In his absence he is represented by the Vice-Chancellor.

Of the elective members eight retire annually, except in every sixth year, when ten retire. Successors are elected by registered graduates and alumni. Retiring members may be re-elected.

The Council has power to elect five trustees (one trustee retiring annually); to discuss all questions relating to the College and its welfare; to make representations of its views to the Senate or the Board of Trustees; to decide on proposals for affiliation and to arrange all matters pertaining to the installation of the Chancellor, to its own meetings and business, the meetings and proceedings of Convocation, and the fees for membership, registration and voting.

Convocation for the conferring of degrees, etc., will be held upon Wednesday, April 26th, 1905.

ELECTIVE MEMBERS IN THE ORDER OF THEIR RETIRING.

Retire 1909.	Francis King, M.A.	Kingston
	W. F. Nickle, B.A.	Kingston.
	Rev. R. Laird, M.A.	Vancouver, B.C.
	Rev. N. Macpherson, M.A., B.D.	Hamilton.
	Rev. D. Strachan, B.A	Brockville.
	J. J. Maclennan, B.A.	Toronto.
	Rev. J. Binnie, M.A., B.D	Tweed.
	D. D. Calvin, B.A	Kingston.
	J. H. Mills, M.A.	Waterford.
	Rev. T. J. Thompson, M.A., B.D.	
Retire 1908	R. V. Rogers, K.C., B.A., LL.D.	Kingston.
	H. A. Calvin, M.P	Kingston.
	J. M. Farrell, B.A.	Kingston.
	Rev. D. McTavish, D.Sc.	Toronto.
	E. B. Echlin, B.A., M.D.	Ottawa.
	Rev. J. K. Macmorine, M.A., D.D.	Kingston.
	Geo. W. Mitchell, M.A.	Cobourg.
Retire 1907	A. G. Farrell, B.A.	Smith's Falls.
	W. L. Grant, M.A.	St. Andrew's College.
	A. B. Cunningham, B.A.	Kingston.
	H. M. Mowat, B.A., LL.B.	Toronto.
	H. R. Duff, M.D.	Kingston.
	V. H. Moore, M.D., LL.D	Brockville.
	Geo. Bell, B.A.	Toronto.
	C. F. Hamilton, M.A.	Toronto.

Retire 1906	R. S. Minnes, M.A., M.D.	Ottawa.
	Rev. J. Hay, M.A., B.D.	Renfrew.
	P. C. McGregor, B.A., LL.D.	Almonte.
	T. G. Marquis, B.A.	Brantford.
	Jas. Douglas, B.A., LL.D.	New York.
	E. Peacock, M.A.	Toronto.
	J. McD. Mowat, B.A.	Kingston.
	Judge McCallum, M.A.	Gore Bay.
Retire 1905	D. M. McIntyre, B.A.	Kingston.
	Rev. J. Cumberland, M.A.	Stella.
	Rev. J. D. Boyd, B.A.	Kingston.
	Gordon W. Mylks, M.D.	Kingston.
	Rev. F. G. Kirkpatrick, B.A.	Lombardy.
	J. Jones Bell, M.A.	Toronto.
	Eliza S. Fitzgerald, M.A.	Cornwall.
	Lennox Irving, B.A.	Pembroke.
Retire 1904	John Marshall, M.A.	Kingston.
	W. A. Logie, M.A., LL.B.	Hamilton.
	Rev. James Carmichael, D.D.	King.
	Judge Fraleck, B.A.	Belleville.
	R. H. Cowley, M.A.	Ottawa.
	Rev. W. W. Peck, M.A., LL.B.	Napanee.
	R. S. O'Loughlin, M.A.	New York.
	J. R. Lavell, B.A., M.P.	Smith's Falls.

CHANCELLOR:

Sir Sandford Fleming, C.E., K.C.M.G., LL.D.

PRINCIPAL AND VICE-CHANCELLOR:

Very Rev. Daniel Miner Gordon, M.A., D.D.

VICE-PRINCIPAL:

John Watson, M.A., LL.D.

REGISTRAR:

George Y. Chown, B.A.

OFFICERS OF INSTRUCTION:

I.—In Theology.

Very Rev. D. M. Gordon, M.A., D.D	Primarius Professor of Divinity.
Rev. D. Ross, D.D	Professor of Apologetics and New Testament Criticism.
Rev. W. G. Jordan, B.A. D.D	Professor of Hebrew and Old Testament Criticism.
Rev. S. McComb, M.A., (Oxon.), D.D	Professor of Church History and History of Dogma.
Rev. G. M. Milligan, D.D., LL.D.	Lecturer on Pastoral Theology.
J. P. Stephen	"Watkin's" Lecturer on Elocution.

II.—In Arts.

Nathan F. Dupuis, M.A., F.B.S., Edin	Professor of Mathematics.
Rev. George D. Ferguson, B.A.	Professor of History.
John Watson, M.A., LL.D	Professor of Moral Philosophy.
D. H. Marshall, M.A., F.R.S.E.	Professor of Physics.
James Cappon, M.A	Professor of English Language and Literature.
J. Macgillivray, Ph.D. (Leipsic)	Professor of German.

S. W. Dyde, M.A., D.Sc., LL.D.	Professor of Mental Philosophy.
Rev. Jas. Fowler, M.A., F.R.S.C.	"The John Roberts Allan" Professor of Botany.
Adam Shortt, M.A.	"The Sir John A. Macdonald" Professor of Political and Economic Science.
A. P. Knight, M.A., M.D.	"The John Roberts" Professor of Animal Biology and Physiology.
W. G. Jordan, B.A., D.D.	Professor of Hebrew.
W. J. Pike, M.A., B.A. (Cantab.)	Professor of Latin.
Rev. Alexander B. Nicholson, B.A.	Professor of Comparative Philology and Sanscrit.
John Marshall, M.A.	Assistant Professor of English Language and Literature.
P. G. C. Campbell, B.A. (Oxon)	Professor of Romance Languages.
T. Callander, M.A. (Abdn.) B.A. (Oxon)	Professor of Greek.
John Matheson, M.A.	"The William Nickle" Assistant to the Professor of Mathematics.
Jas. A. Petrie, B.A.	"The Robert Waddell" Tutor in Hebrew.
R. A. Wilson, M.A.	Fellow in Mental Philosophy.
J. M. MacEachran, M.A.	Fellow in Moral Philosophy.

III.—In Practical Science.

Nathan F. Dupuis, M.A., F.B.S., F.R.S.C.	Professor of Mathematics and Mechanism and Dean of Faculty.
Wm. L. Goodwin, B.Sc., (Lond.) D.Sc., (Edin.) F.R.S.C.	Professor of Chemistry, Director School of Mining.
D. H. Marshall, M.A., F.R.S.E.	Professor of Physics.
William Nicol, M.A.	Professor of Mineralogy and Assaying.
Willet G. Miller, B.A.	Professor of Geology and Petrography.
Rev. Jas. Fowler, M.A., F.R.S.C.	Professor of Botany.

A. P. Knight, M.A., M.D.	Professor of Animal Biology and Physiology.
L. W. Gill, B.Sc.	Professor of General and Electrical Engineering.
Stafford Kirkpatrick, M.Sc.	Acting Professor of Metallurgy.
Reginald Brock, M.A.	Acting Professor of Geology and Petrography.
J. C. Gwillim, B.Sc.	Acting Professor of Mining Engineering.
N. R. Carmichael, M.A.	Associate Professor of Physics.
Jno. Waddell, B.A., D.Sc., Ph.D.	Lecturer on Chemistry.
F. R. Sharpe, B.A. (Cantab)	Lecturer on Applied Mathematics.
J. L. Bogart, B.Sc.	Lecturer on Surveying.
W. C. Baker, M.A	Demonstrator in Experimental Physics on "The Robert Waddell" Foundation.

IV.—In Medicine.

Medicine.

James Third, M.D.	Professor of the Principles and Practice of Medicine.
John Herald, M.A., M.D.	Professor of Clinical Medicine and Dermatology.
James W. Campbell, M.D.	Professor of Materia Medica and Therapeutics.

Surgery.

Hon. Michael Sullivan, M.D.	Professor of the Principles and Practice of Surgery.
D. E. Mundell, B.A., M.D.	Assistant.
W. G. Anglin, M.D., M.R.C.S., F.O.S.	Professor of Clinical Surgery.

Anatomy.

Edward Ryan, B.A., M.D.	Professor of Anatomy.
D. E. Mundell, B.A., M.D.	Professor of Medical and Surgical Anatomy.
G. W. Mylks, M.D., C.M.	Assistant Professor and Demonstrator of Anatomy.
C. A. Morrison, M.D., C.M.	Demonstrator of Anatomy.
A. W. Richardson, B.A., M.D., G. W. Mylks, M.D., and A.E. Ross, B.A., M.D.	Demonstrators of Anatomy.

Obstetrics and Gynaecology.

R. W. Garrett, M.A. M.D.	Professor.

Isaac Wood, M.A., M.D., M.R.C.S., Eng., F.O.S., Edin... ..... Associate Professor.

Pediatrics.

Isaac Wood, M.A., M.D., M.R.C.S., Eng., F.O.S. Edin., Professor.

Sanitary Science.

W. T. Connell, M.D., M.R.C.S, Eng., L.R.C.P., Lond., Professor.

Pathology and Bacteriology.

W. T. Connell, M.D., M.R.C.S., Eng., L.R.C.P., Lond., Secretary of the Faculty.................. Professor.
A. R. B. Williamson, M.A., M.D., M.R.C.S., L.R.C.P.... .... Demonstrator.

Medical Jurisprudence and Toxicology.

A. R. B. Williamson, M.A., M.D., M.R.C.S., L.R.C.P., Lecturer.

Opthalmology, Otology, Laryngology and Rhinology.

J. C. Connell, M.A., M.D., Dean of the Faculty.

Mental Diseases.

C. K. Clarke, M.D........... ... Med. Supt. Hospital for the Insane.

Biology, Physiology and Histology.

James Fowler, M.A., F.R.S.C... Professor of Botany and Vegetable Histology.
A. P. Knight, M.A., M.D.. ..... Professor of Animal Biology, Physiology and Histology.
A. R. B. Williamson .... Tutor in Biology.
I. G. Bogart, M.D............... Tutor in Histology.

Chemistry and Applied Chemistry.

W. L. Goodwin, B.Sc., (Lond.) D.Sc., (Edin.)... ... ... Professor.
Isaac Wood, M.A., M.D., M.R.C.S., L.R.C.P.................. . .. Lecturer.
John Waddell, Ph. D., Leip., D.Sc., Edin............................. Lecturer.

Examiners in Law.

J. L. Whiting, M.A., K.C... .... Criminal Law.
R. Vashon Rogers, B.A.,K.C.,LL.D.... .... Common Law.
G. M. Macdonnell, B.A., K.C.... The Law of Real Property.
R. T. Walkem, LL.D., K.C... ... Equity.
John McIntyre, M.A., K.C.. .... Medical Jurisprudence.

OTHER OFFICERS.

Registrar of University Council.

Francis King, M.A.

Observatory Board.

The Principal.

Director of Observatory.

Prof. Dupuis, M.A., F.B.S., Edin.

Curators of Library.

Professors Ross, Knight, Shortt and Macgillivray

Librarian.

Miss Lois Saunders.

Curators of Museum.

Profssors of Biology and Geology.

Examiner in Medical Matriculation.

Arthur E. Ross, B.A., M.D.

Examiners in Gaelic.

Rev. M. Macgillivray, M.A., and John Matheson, M.A.

Janitor.

John V. Burton.

TIME TABLE—ARTS.

HOUR.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8	Jr. English. .A. B *German. Sr. Hebrew. *Mineralogy.	Jr. English. A. *German. *Mineralogy.	Jr. English. B. *German. Sr. Hebrew. *Mineralogy.	Jr. English. A. *German. *Mineralogy.	Jr. English. B. *German. Sr. Hebrew. *Mineralogy.	*‡Assaying.
9	Jr. Greek. Sr. History. Jr. Philosophy. Animal Biology. El. Mineralogy. *Philosophy. *Pol. Science.	Jr. Greek. Jr. History. Sr. Philosophy. Sr. Physics. *Philosophy. *Pol. Science.	Jr. Greek. Sr. History. Jr. Philosophy. An. Biology. *Philosophy. *Pol. Science. *Mineralogy.	Jr. Greek. Jr. History. Sr. Philosophy. Sr. Physics. *Philosophy. *Pol. Science.	Jr. Greek. Jr. History. Jr. Philosophy. Animal Biology. *Philosophy. *Pol. Science. *Mathematics.	*‡Assaying.
10	Jr. Latin. Sr. French. Sr. English. A. Jr. Pol. Science. Jr. Physics. *Latin. *Italian. *History. *Philosophy. *Geology.	Jr. Latin. Sr. French. Sr. Pol. Science. Sr. Mathemat. Botany. *Latin. *German. *History. *Spanish. *Geology.	Jr. Latin. Sr. English. B. Jr. Pol. Science. Jr. Physics. Botany. *Latin. *Italian. *History. *Philosophy. *Mathematics. *Geology.	Jr. Latin. Sr. French. Sr. Pol. Science. Sr. Mathemat. Botany. *Latin. *German. *History. Biol. Laboratory. *Spanish. *Mineralogy. *Geology.	Jr. Latin. Sr. French. Jr. Pol. Science. Jr. Physics. *Latin. *History. Biol. Laboratory. *Mathematics. *French. *Geology.	*‡Assaying.
11	Sr. Latin. Jr. German. Jr. Chemistry. *English. *Greek. *Mathematics. *Botany. *Geology.	Sr. Latin. Jr. German. Jr. Chemistry. *Anglo-Saxon. *Greek. *Mathematics. *Botany. *Geology.	Sr. Latin. Jr. German. Jr. Prac. Chem. *English. *Greek. *Mineralogy. *Botany. *Geology.	Sr. Latin. Jr. German. Sr. Chemistry. A. *French. *Greek. *Mathematics. *Botany. *Geology.	Sr. Latin. Jr. German. Sr. Chemistry. B. *English. *Greek. *Botany. *Geology.	*‡Assaying.

12	Sr. Greek. Sr. German. *French. *Philosophy. *Physics. *An. Biology.	Sr. Greek. Sr. German. Jr. English. A. *French. *Sanscrit. *Philosophy. *Physics. *An. Biology.	Sr. Greek. Sr. German. *French. *Sanscrit. *Philosophy. *Physics. *An. Biology.	Sr. Greek. Sr. German. Jr. English. B. *French. *Philosophy. *Physics. *An. Biology.	Sr. Greek. Sr. German. *Latin. *French. *Philosophy. *Philology. *Physics. *An. Biology. *Astronomy.	*‡Assaying.
2	Jr. French. Sr. English B. *Mineralogy.	Jr. French. Sr. English. A. Geology. *Physics. *Chemistry.	Jr. French. Sr. French. Sr. English A.	Jr. French. Sr. English. Geology.	Jr. French. Sr. English A & B *English. Blowpipe Analysis.	*‡Assaying.
3	Jr. Mathemat. *English. *Chemistry.	Jr. Hebrew. Jr. English. A. Sr. Chemistry. C. *Physics. *Chemistry.	Jr. Mathemat. *English. *Chemistry.	Jr. Hebrew. Jr. English. B. *Mathematics. *Physics. *Chemistry.	Jr. Hebrew. Jr. Mathemat. *Chemistry.	*‡Assaying.
4	*Mathematics.	Anglo-Saxon. *Mathematics.	*Mathematics.			*‡Assaying.

*Denotes Honours.
El. Crystallography course of 15 lectures at 1 o'clock, opening of first term.
‡Second term only.

TIME TABLE—THEOLOGY.

HOUR.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	
9	Sr. Hebrew.	*O.T. Criticism	*Ch. History. O. T. Criticism	*O.T. Criticism	Sr. Hebrew.	
10	N. T. Criticism	O. T. Criticism	History of Dogma.	O. T. Criticism	N. T. Criticism	
11	Ch. History.	Divinity.	Divinity.	Ch. History.	Ch. History.	
12	Homiletics.	Apologetics.	Apologetics.	Apologetics.	Homiletics.	
3		Eng. Bible. Jr. Hebrew.		Eng. Bible. Jr. Hebrew.	Jr. Hebrew.	

*Denotes Honours.

JUNIOR AND SENIOR MATRICULATION EXAMINATIONS.

SEPTEMBER, 1904.

		9 A.M.	2 P.M.
Thursday,	15th Sept.	—English Composition.	Eng. Literature.
Friday,	16th “	—History.	Euclid.
Saturday,	17th “	—Latin Authors.	Latin Grammar and Composition.
Monday,	19th “	—Physics.	
Tuesday,	20th “	—Arithmetic.	Algebra.
Wednesday,	21st “	—French Authors.	French Grammar & Composition.
Thursday,	22nd “	—Greek Authors.	Greek Grammar & Composition.
		German Authors.	German Grammar & Composition.
Friday,	23rd “	—Botany.	Animal Biology.
Saturday,	24th “	—Chemistry.	English Grammar.

PASS SUPPLEMENTAL EXAMINATIONS.

SEPTEMBER, 1904.

		9 A.M.	2 P.M.
Tuesday,	13th Sept.	—Jr. Latin.	Sr. Latin.
Wednesday,	14th “	—Economics.	Politics.
Thursday,	15th “	—Jr. English.	Sr. English.
Friday,	16th “	—Medieval History.	English Constitutional History.
Saturday,	17th “	—Mental Philosophy.	Moral Philosophy.
Monday,	19th “	—Jr. Physics.	Sr. Physics.
Tuesday,	20th “	—Jr. Mathematics.	Sr. Mathematics.
Wednesday,	21st “	—Mineralogy.	Geology.
		*Jr. French.	**Sr. French.
Thursday,	22nd Sept.	—Jr. Greek.	Sr. Greek.
		*Jr. German.	**Sr. German.
Friday,	23rd Sept.	—Botany.	Animal Biology.
Saturpay,	24th “	—Jr. Chemistry.	Sr. Chemistry.
Friday,	28th Oct.	—Jr. Hebrew.	Sr. Hebrew.

*8.30 Dictation. **1.30 Dictation.

PASS EXAMINATIONS.

APRIL, 1905.

ARTS.

		9. A.M.	2 P.M.
Monday,	3rd April.	—*Jr. French.	**Sr. French.
Tuesday,	4th “	—Jr. Greek.	Sr. Greek.
Wednesday,	5th “	—Jr. English.	Mineralogy.
Thursday,	6th “	—Sr. English.	Geology.
Friday,	7th “	—Economics.	Politics.
Saturday,	8th “	—Jr. Mathematics.	Medieval History.
Monday,	10th “	—Sr. Mathematics.	English Const. Hist'y
Tuesday,	11th “	—Jr. Latin.	Sr. Latin.
Wednesday,	12th “	—Ment. Philosophy.	Moral Philosophy.
Thursday,	13th “	—Jr. Physics.	Sr. Physics.
Friday,	14th “	—Jr. Chemistry.	Sr. Chemistry.
Saturday,	15th “	—Botany.	Animal Biology.
Monday,	17th “	—*Jr. German.	**Sr. German.
Tuesday,	18th “	—Jr. Hebrew.	Sr. Hebrew.

THEOLOGY.

		9 A.M.
Wednesday,	13th April.	—Church History.
Thursday,	14th “	—O. T. Criticism.
Friday,	15th “	—New Testament Criticism.
Saturday,	16th “	—History of Dogma.
Monday,	18th “	—Divinity.
Tuesday,	19th “	—Sr. O. T. Criticism.
Wednesday,	20th “	—Apologetics.

Three hours allowed for each paper.

Time Table for Honour Examinations will be issued in March.

*8.30 Dictation. **1.30 Dictation

GENERAL ANNOUNCEMENTS.

QUEEN'S COLLEGE has, under its Royal Charter, "the style and privileges of a University."

The Sixty-fourth Session will open on Wednesday, the 28th or September, 1904.

A compilation of statutes and by-laws containing information for students is published separately. Copies are to be obtained from the Registrar.

BOARDING.—Lists of boarding houses may be obtained from the Registrar. A residence for a limited number of women students has been recently established. Persons desiring information should write to "The Secretary of Woman's Residence, Queen's University, Kingston."

HOSPITAL PRIVILEGES.—The Governors of the Kingston General Hospital agree to give those students who take out Hospital tickets (cost $1) all the advantages of a private room, including room, board, attendance of nurses in training, and ordinary medicines, when requiring medical or surgical treatment, from Oct. 1st to May 1st. These benefits are conditional on 250 students taking out tickets.

REGISTRATION.—All students are required to have their names entered in the University Register. Before registration they must pay the required fees, or produce the Treasurer's receipt for them. They must also present a certificate of character from their clergyman or other competent person, and sign a declaration promising due obedience to the University authorities.

ATTENDANCE AT CHURCH.—All students are expected to attend the churches to which they profess to belong, and produce certificates of attendance from their clergyman when required.

THE LIBRARY contains about 37,000 volumes. Students are entitled to the use of it subject to by-laws.

THE MUSEUM.—The geological collections, embracing rocks, minerals and fossils, contain the following:

1. The Bell collections, illustrating a north and south stratigraphical section across the Province from Lake Erie, 1,000 specimens. Section across the Ottawa river, 500.
2. Specimens of rocks and minerals from various sources, 3,600.

3. Specimens of fossils, 5,000. The rocks and minerals contributed and collected during late years are deposited in the collections of the School of Mining.

4. The Botanical collection contains 1,200 genera, 3,650 species, and 9,450 sheets of mounted plants. The private herbarium in the museum contains 2,157 genera, 8,654 species, and 14,731 sheets. These include large collections of Tasmanian, Australian, South African, European and Asiatic species. The flora of the British Islands is almost completely represented.

5. The zoological collection contains: Mammals, 26; birds, 130; fish, 40: invertebrates, about 200 in alcohol and 150 dry; a small collection of reptiles, and another of insects; the mollusca are represented by about 2,600 shells. A large addition has been recently made to the herbarium.

Academic Costume.—All graduates and undergraduates when attending class or any college meeting, shall wear the costume prescribed by the University.

Each degree has its distinctive hood, as follows: B.A., black, bordered with red silk; M.A., scarlet; B.Sc., black silk, bordered with yellow silk; D.Sc., black silk, lined with blue silk, bordered with white; M.D., scarlet, bordered with white; B.D., white, bordered with crimson plush; D.D., black silk, lined with white silk; LL.B., blue, bordered with white fur; LL.D., black silk, lined with blue silk; Ph.D., black silk, lined with purple, bordered with white.

Fees.—Graduation and spring examination fees must be paid before March 31st; supplemental examination fees before September 1st; all other fees on or before October 7th.

Fees: (1) Faculty of Arts.

Senior Matriculation Examination..........		$10 00
Senior Matriculation on *pro tanto* certificate....		10 00
Junior Matriculation Examination at University....		5 00
Extra-mural Junior Matriculation Examination (Sept)..		8 00
Athletics.....	per session	2 00
Registration.....	“	10 00
Class Fees.....	“	25 00
†Any Class except those mentioned below	“	8 00
†Junior Chemistry.....	“	12 00
†Senior Chemistry.....	“	12 00
*Pass Examination.....	“	8 00
*Honour Examination.....	“	10 00

†These fees apply only to unmatriculated students who do not pay full class fees.

Special Fees.

Laboratory—Honour Qualitative Analysis	per session	$15 00
" Honour Quantitative Analysis	"	15 00
" Physics, Pass Course	"	2 00
" Physics, Honour	"	10 00
" Botany, Pass Course	"	1 00
" †Botany, Honour Course	"	3 00
" Animal Biology, Pass Course	"	5 00
" Animal Biology, Honour Course	"	12 00
" Petrography	"	5 00
" Assaying	"	5 00
Junior Philosophy (correcting essays)		1 00
Matriculation Certificate		5 00
Certificate of standing		1 00
Graduation—Bachelor of Arts (B.A.)		10 00
" Master of Arts (M.A.)		20 00
" Doctor of Philosophy (Ph.D.)		50 00
" Doctor of Science (D.Sc.)		50 00
Admission ad eundum gradum (B.A.)		20 00
" " statum		10 00

Students taking Physics, Chemistry, Geology or Mineralogy must register in the School of Mining, pay the fee of $1.00 and make a deposit of $5.00.

†Students collecting 200 specimens for their own use will be exempt from this fee.

*Students who have paid the examination fee in April can write on the September examinations on payment of $4.00.

Fees: (2) Faculty of Practical Science.

Matriculation Examination (September)		$ 5 00
Registration	per session	10 00
Athletics	"	2 00
Class Fees—1st Year	"	45 00
" 2nd Year	"	45 00
" 3rd Year	"	50 00
" 4th Year	"	55 00
*Pass Examination	"	8 00

For Students not Paying Class Fees as Above.

Any Class	per session	12 00
Laboratory—Honour Qualitative Analysis	"	15 00
" Honour Quantitative Analysis	"	15 00
" Mechanical and Engineering	"	20 00
" Honour Practical Physics	"	10 00
" Pass Practical Physics	"	2 00
" Animal Biology, Honour Course	"	12 00
" Animal Biology, Pass Course	'	5 00

Laboratory—Petrography	per session	$ 5 00
" Assaying	"	5 00
Certificate of Standing		1 00
Graduation—B.Sc.		20 00
" M.E.		20 00
Admission ad eundum statum		10 00

*Students who have paid the examination fee in April can write on the September examination on payment of $4.00.

FEES: (3) FACULTY OF MEDICINE.

Matriculation Examination (October 1st)	$5 00

The Sessional Fee, including Classes, Registration, Athletics, Library, Examination, Laboratories, and the required amount of dissection material is $100 per session. If paid before October 16th, $95. If not paid before January 10th, $105. Special arrangements will be made with those who do not take the full course of any year.

SPECIAL FEES.

Graduation—M.D., C.M.	$30 00
Fifth year	50 00
Supplemental Examinations	10 00
Hospital Ticket—Full Course	20 00
Hospital Ticket—Single Session	7 00
Ad eundum statum	10 00
Exclusive use of Microscope per Session	5 00

For further information apply to Dr. W. T. Connell, Secretary, Medical Faculty.

FEES: (4) FACULTY OF THEOLOGY.

Registration	per session	$ 5 00
Matriculation	"	2 00
Athletics	"	2 00
Pass Examination	"	3 00
Supplemental Pass Examination	"	3 00
*B.D Examination	"	6 00

SPECIAL FEES.

Testamur	$ 2 00
Graduation—Bachelor of Divinity	20 00
Admission ad eundum statum	10 00

FEES: (5) FACULTY OF LAW.

Registration	per session	10 00
Examination	"	10 00

SPECIAL FEES.

Graduation—Bachelor of Laws (LL.B.)	20 00
Admission ad eundum gradum	20 00
Admission ad eundum statum	10 00

(6) AGRICULTURE.

For information apply to J. W. Mitchell, B.A., Superintendent of Dairy School.

*Students who have paid the examination fee in April can write on the September examinations on payment of $3.00.

FACULTY OF ARTS.

ARTICLE I.—PASS MATRICULATION.

GENERAL REGULATIONS.

1. The classes in the University are open to unmatriculated students, but candidates for a degree must pass the matriculation examination or an examination accepted by the Senate as equivalent before being admitted to examination on the University courses.

2. Any person presenting a Departmental certificate of matriculation will be admitted as an undergraduate upon paying the registration fee. Any person will be exempt from any part of the Matriculation Examination already passed.

3. Any person presenting a Junior Leaving certificate will be permitted to enter upon a University course in Arts, but his first examination must include any two of Junior Latin, Greek, French or German.

4. The examination in July will be that conducted for the Universities by the Education Department, known as the Departmental Junior Matriculation examination. The examination will be held at Queen's University and at the various Collegiate Institutes and High Schools of Ontario. Candidates for this examination, if they propose to write at a Collegiate Institute or High School, must notify the Public School Inspector of their city or county, and pay him the fee before May 23rd, and at the same time send notice to the University Registrar on a form which will be supplied on application. Candidates pro-

posing to write at Queen's University must send the required notice to the Registrar by May 23rd, accompanied by the fee.

5. A second examination will begin at Queen's University on September 15th, 1904. Notice of intention to appear at this examination, together with the fee, must be sent to the Registrar by September 1st, on a form which will be supplied on application. A candidate failing partially in July and desiring to complete the examination in September, and who did not write at Queen's University, must send a copy of the marks obtained in the July examination, certified by the headmaster of the school at which he wrote.

6. The fees for Matriculation are:—Junior Matriculation, $5.00; Supplemental examination in Junior Matriculation, subjects in which the candidate has failed, $2.00 for each subject; total fee not to exceed $5.00. Senior Matriculation, $10.00.

7. All candidates for Junior Matriculation shall take English Composition, English Literature, English Grammar, Algebra, Euclid, Arithmetic, History (British, Canadian and Ancient), Latin, and any two of Greek, French, German, Experimental Science (Physics and Chemistry).

8. The percentage for Pass is thirty-three and one-third on each paper. The marks for sight work on each of the "Authors" papers shall not constitute more than thirty-three and one-third per cent. of the whole of the marks for the paper.

9. Candidates who matriculate in any University in the British Empire will be allowed to enter upon a course without further examination. Matriculation examination from Universities in other countries will be accepted *pro tanto*.

10. Teachers' examinations are accepted *pro tanto* in lieu of the Matriculation examination, *i.e.,* in so far as the subjects correspond as follows:—

Ontario	Jr. Leaving.
Prince Edward Island	Second Class.
Nova Scotia	Grade XI.
New Brunswick	Second Class.
Quebec	Academy Grade III. University School AA.
Manitoba	Second Class.
North West Territories	Grade VII.
British Columbia	Intermediate.

11. In the case of students over the age of 21 the Senate may postpone the Matriculation examination.

12. Junior Leaving certificates will be accepted *pro tanto* at the Junior Matriculation examination.

13. Matriculation scholarships will be awarded on the results of the July Departmental Matriculation examination. (See article on Matriculation Scholarships.)

14. Candidates for scholarships must notify the Registrar not later than May 23rd, stating distinctly where they intend to write, and declaring their intention to enter, if successful, on a course of study in Queen's University.

SUBJECTS OF JUNIOR MATRICULATION.

ENGLISH GRAMMAR AND RHETORIC.

The main facts in the development of the language. Etymology and syntax, including the inflection, classification, and elementary analysis of words and the logical structure of the sentence.

One examination paper.

ARITHMETIC.

Elementary Rules; Fractions (Vulgar and Decimal), Interest, Discount, and easy problems in Stocks.

One examination paper.

HISTORY OF GREAT BRITAIN AND CANADA.

Great Britain and Canada from 1763 to 1885, with the outlines of the preceding periods of British History.

The geography relating to the history prescribed.

One examination paper.

PHYSICS.

Use of the metre rule; use of calipers and vernier for more accurate metric measurements (*e.g.*, diameters of wires, thickness of glass, plates, etc.); numerical calculation in the metric system.

Use of balance.

Specific gravity, by specific gravity bottle and hydrostatic balance, of liquids and of solids.

Boyle's law; barometer; diffusion of gases.

Use of Fahrenheit and centigrade thermometers; determination of zero and boiling point; boiling point dependent on pressure.

Expansion of solids, liquids and gases, examples.

Specific heat; latent heat; easy numerical examples.

Transmutation of matter; indestructibility of matter.

Solution, precipitation, crystallization and evaporation.

One examination paper.

GREEK.

Translation into English of passages from prescribed texts.

Translation at sight (with the aid of vocabularies) of easy Attic prose, to which special importance will be attached.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation from English into Greek of sentences and of easy narrative passages based upon the prescribed prose texts.

The following are the prescribed texts :—

1905: Selections from Xenophon, Anabasis I., in White's Beginner's Greek Book (pp. 304-428), with the exercises thereon; Homer, Iliad I.

1906: Selections from Xenophon, Anabasis I., in White's Beginner's Greek Book, (pp. 304-428), with the exercises thereon; Homer, Iliad VI.

Two papers will be set : (1) Prescribed texts and translation at sight ; questions on grammar ; (2) the translation of English into Greek

LATIN.

Translation into Latin of English phrases and easy sentences to illustrate Latin accidence and the common rules of Latin syntax.

Translation into Latin of easy narrative English based upon the first twenty-five chapters of the prescribed Caesar.

Translation at sight (with the aid of vocabularies) from some easy prose author.

Translation from prescribed texts, with grammatical and other questions naturally arising from the extracts set for translation.

The following are the texts prescribed :—

1905 and 1906: *Cornelius Nepos*, Lives of Themistocles and Aristides ; *Caesar*, Bellum Gallicum, Bk. IV. (omitting Chap. 17), and Bk. V., Chaps. 1-23 ; *Virgil*, Æneid, Bk. II. (1-505).

Two papers will be set : (1)Translation of English into Latin ; (2) prescribed texts and translation at sight, with questions on grammar, etc.

N.B.—The Roman method of pronouncing Latin is recommended.

MATHEMATICS.

Algebra.—Elementary rules, highest common measure, lowest common multiple, fractions, square root, simple equations of one, two and three unknown quantities, indices, surds, quadratics of one and two unknown quantities.

One examination paper.

Geometry.—Euclid : Books I, II and III ; easy deductions.

One examination paper.

FRENCH.

The candidate's knowledge of French will be tested by : (1) simple questions on Grammar, (2) the translation of simple passages from English into French ; (3) translation at sight of easy passages from modern French, and (4) an examination on the followin texts :—

1905 : *Lamennais*, Paroles d'un croyant (Chaps. VII and XVII) ; *Perrault*, Le Maître Chat, ou le Chat Botté ; *Dumas*, Un nez gelé and la Pipe de Jean Bart ; *Alphonse Daudet*, la Dernière classe, and la Chèvre de M. Seguin ; *Legouve*, la Patte de dindon ; *Pouvillon*, Hortibus ; *Loti*, Chagrin d'un Vieux forçat ; *Moliere*, l'Avare, Acte III, sc. 5 (Est-ce à votre cocher....sous la mienne) ; *Victor Hugo*, Waterloo, (Chap. IX) ; *Rouget de L'Isle*, la Marseillaise ; *Arnault*, la Feuille ; *Chateaubriand*, l'Exilé ; *Theophile Gautier*, la Chimère ; *Victor Hugo*, Estase, Lamartine, l'Automne ; De Musset, Tristesse ; *Sully Prudhomme*, le Vase brisé ; *La Fontaine*, le Chêne et le Roseau.

ERCKMANN-CHATRIAN, Contes Fantastiques, pp. 3-69, 121-138, ed. by E. S. Joynes, (Holt & Co.).

1906 : *Lamennais*, Paroles d'un croyant, Chaps. VII and XVII ; *Perrault*, le Maître Chat ou le Chat Botté ; *Dumas*, Un nez gelé, and la Pipe de Jean Bart ; *Alphonse Daudet*, la Dernière classe, and la Chèvre de M. Seguin ; *Legouve*, la Patte de dindon ; *Pouvillon*, Hortibus ; *Loti*, Chagrin d'un vieux forçat ; *Moliere*, l'Avare, Acte, III, sc. 5 (Est-ce à votre cocher....sous la mienne) ; *Victor Hugo*, Waterloo, Chap. IX ; *Rouget De L'Isle*, la Marseillaise ; *Arnault*, la Feuille ; *Chateaubriand*, l'Exilé ; *Theophile Gautier*, la Chimère ; *Victor Hugo*, Extase ; *Lamartine*, l'Automne ; *De Musset*, Tristesse ; *Sully Prudhomme*, le Vase brisé ; *La Fontaine*, le Chêne et le Roseau.

Labiche, le Voyage de Monsieur Perrichon.

Two papers will be set : (1) Prescribed texts and translation at sight ; questions on Grammar ; (2) the translation of English into French.

GERMAN.

The candidate's knowledge of German will be tested by : (1) simple questions on Grammar ; (2) the translation of simple passages from English into German ; (3) translation at sight of easy passages from modern German, and (4) an examination on the following texts ;—

1905 : *Grimm*, Rotkäppchen ; *Anderson*, Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bär ; *Ertl*, Himmelsschüssel ; *Frommel*, Das eiserne Kreuz ; *Baumbach*, Nicotiana, Der Goldbaum ; *Heine*, Lorelei, Du bist wie eine Blume ; *Uhland*, Schäfer's

Sonntagslied, Das Schloss am Meer; *Chamisso*, Das Schloss Boncourt; *Claudius*, Die Sterne, Der Riese Goliath; *Goethe*, Mignon; Erlkönig, Der Sänger; *Schiller*, Der Jüngling am Bache.

LEANDER, Träumereien, pp. 45-90, (selected by Van Daell).

1906: *Grimm*, Rotkäppchen; *Anderson*, Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bär; *Ertl*, Himmelsschlüssel; *Frommel*, Das eiserne Kreuz; *Baumbach*, Nicotiana, Der Goldbaum; *Heine*, Lorelei, Du bist wie eine Blume; *Uhland*, Schäfer's Sonntagslied, Das Schloss am Meer; *Chamisso*, Das Schloss Boncourt; *Claudius*, Die Sterne, Der Riese Goliath; *Goethe*, Mignon, Erlkönig, Der Sänger; *Schiller*, Der Jüngling am Bache.

Baumbach, Waldnovellen.

Two papers will be set: (1) Prescribed texts and translations at sight; questions on Grammar; (2) the translation of English into German.

ENGLISH.

Composition.—An Essay, to which special importance will be attached on one of several themes set by the examiners. In order to pass in this subject, legible writing, correct spelling and punctuation, and proper construction of sentences are indispensable. The candidate should also give attention to the structure of the whole essay, the effective ordering of thought, and the accurate employment of a good English vocabulary. About two pages of foolscap is suggested as the proper length for the essay; but quality, not quantity, will be mainly regarded.

One examination paper.

Literature.—Such questions only shall be set as may serve to test the candidate's familiarity with, and intelligent and appreciative comprehension of, the prescribed texts. The candidate will be expected to have memorized some of the finest passages. In addition to questions on the following selections, others shall be set on a "sight passage" to test the candidate's ability to interpret literature for himself.

One examination paper.

1905. LONGFELLOW: Evangeline, The Day is Done, The Old Clock on the Stairs, The Fire of Driftwood, Resignation, The Warden of the Cinque Ports, The Bridge, A Gleam of Sunshine.

WORDSWORTH; "Three Years She Grew in Sun and Shade," "She was a Phantom of Delight," "There is a Flower, the Lesser Celandine," To a Skylark, ("Ethereal Minstrel, Pilgrim of the Sky,") The Green Linnet, To the Cuckoo, "With little here to do or see."

SHAKESPEARE: Macbeth.

1906. COLERIDGE: The Ancient Mariner.

WORDSWORTH: Michael, Influence of Natural Objects, Nutting, Expostulation and Reply, The Tables Turned, The Solitary

Reaper, Ode to Duty, Elegiac Stanzas, To the Rev Dr. Wordsworth, "She was a phantom of Delight, To the Cuckoo, The Green Linnet, "Bright Flower! whose home," To a Skylark, ("Ethereal Minstrel, pilgrim of the sky!") Reverie of Poor Susan, To My Sister, "Three years she grew in sun and shower," September, 1819, Upon the Same Occasion.

The following twelve sonnets: "Two Voices are There," "Scorn not the sonnet," "A flock of sheep that leisurely," "Earth hath not anything," "It is not to be thought of," "Fair Star of evening," "O Friend! I know not," "Milton! thou shonld'st," "When I have borne in memory," "Brook, whose society," "Tax not the Royal Saint," "They dreamt not of a perishable home."

SHAKESPEARE: The Merchant of Venice.

ANCIENT HISTORY.

1. General outlines of Greek History to the fall of Corinth.
2. General outlines of Roman History to the death of Augustus.

Geography relating to the history prescribed.

One examination paper.

CHEMISTRY.

Properties of hydrogen, chlorine, oxygen, sulphur nitrogen, carbon and their most important compounds. Nomenclature. Laws of combination of the elements. The atomic theory and molecular theory.

One examination paper.

ARTICLE II.—SENIOR MATRICULATION.

1. Candidates who intend to pursue an Honour Course in the University are recommended to take the Senior Matriculation (Form IV) in as many subjects as possible.

2. Candidates for Senior Matriculation shall take English, Latin, History, Mathematics, and any two of Greek, French, German, Experimental Science (Physics and Chemistry).

3. The percentage for Pass is thirty-three and one-third on each paper. The marks for sight work on each of the "Authors" papers shall not constitute more than thirty-three and one-third per cent. of the whole of the marks for the paper.

*4. Candidates who have taken forty per cent. on the Senior Matriculation or Senior Leaving papers in Latin, Greek, French, German, Mathematics, English, Chemistry, Physics, Botany, or Animal Biology, will, on payment of the Senior Matriculation *pro tanto* fee, not be required to take the University Junior class in the subject. As no student is allowed to pass more than five classes in a session, (see clause 5, article VIII), any one entering under this clause will not be exempt from more than five classes.

5. Any person presenting a Senior Leaving certificate with Science option will be permitted to enter upon a University course, but in his first examination, must include either Junior Latin, Greek, French or German.

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*Note.—Candidates intending to avail themselves of this clause should write the Deputy Minister of Education, stating where and when they wrote, and have their marks forwarded to the Registrar, who will advise the classes allowed.

SUBJECTS OF SENIOR MATRICULATION.

GREEK.

Translation into English of passages from prescribed texts.

Translation at sight of passages of average difficulty, similar to the authors read.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation into Greek of ordinary narrative passages of English.

The following are the prescribed texts:—

1905: XENOPHON, Anabasis I (Chaps. I-VIII); HOMER Iliad I, Odyssey XIX; LUCIAN, Charon (Heitland); LYSIAS, Contra Eratosthenem.

1906: XENOPHON, Anabasis I (Chaps. I-VIII); HOMER, Iliad VI, Odyssey XXI; LUCIAN, Charon; LYSIAS, Contra Eratosthenem.

Two examination papers.

LATIN.

Translation into English of passages from prescribed texts.

Translation at sight of passages of average difficulty, similar in style to the authors read.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation into Latin of ordinary narrative passages of English.

1905: CORNELIUS NEPOS, Lives of Themistocles, and Aristides; CAESAR, Bellum Gallicum, Book IV, omitting Chap. 17, and Bk. V, Chaps. 1-23; VIRGIL, Æneid II, lines 1-505; HORACE, Odes I, II; CICERO, In Catilinam I, III, IV.

1906: CORNELIUS NEPOS, Lives of Themistocles and Aristides; CAESAR, Bellum Gallicum, Book IV, omitting Chap. 17, and Book V Chaps. 1-23; VIRGIL, Æneid II, lines 1-505; HORACE, Odes I and II; CICERO, Pro Lege Manilia, Pro Marcello, Philippic XIV (Harper's Text).

Two examination papers.

MATHEMATICS.

Algebra.—Elementary rules; highest common measure; lowest common multiple; fractions; square root; simple equations of one, two and three unknown quantities; indices; surds; quadratics of one and two unknown quantities; theory of divisors; ratio, proportion and variation; progressions; notation; permutations and combinations; binomial theorem; interest forms, annuities.

One examination paper.

Geometry.—Euclid, Books I, II, III, IV and VI; definitions of Book V; deductions.

One examination paper.

Trigonometry.—Trigonometrical ratios with their relations to each other; sines, etc., of the sum and difference of angles with deduced formulas; use of logarithms; solution of triangles; expressions for the area of a triangle; radii of circumscribed, inscribed and escribed circles.

One examination paper.

FRENCH.

The prescription of work in grammar, translation of English into French and sight translation is the same for Senior as for Junior, but the examination will be of a more advanced character.

The following are the prescribed texts:

1905: LAMENNAIS, Paroles d'un croyant, Chaps. VII and XVII; PERRAULT, Le Maître Chat, ou le Chat Botté; DUMAS, Un nez gelé, and la Pipe de Jean Bart; ALPHONSE DAUDET, la Dernière classe, and la Chèvre de M. Seguin; LEGOUVÉ, la Patte de dindon; POUVILLON, Hortibus; LOTI, Chagrin d'un vieux forçat; MOLIÈRE, l'Avare Acte III, sc. 5, (Est-ce à votre cocher....sous la mienne); VICTOR HUGO, Waterloo, Chap. IX; ROUGET DE L'ISLE, La Marseillaise; ARNAULT, la Feuille; CHATEAUBRIAND, l'Exilé; THÉOPHILE GAUTIER, la Chimère; VICTOR HUGO, Extase; LAMARTINE, l'Automne; DE MUSSET, Tristesse; SULLY PRUDHOMME, le Vase brisé; LA FONTAINE, le Chêne et le Roseau.

ERCKMANN-CHATRIAN, Contes Fantastiques, pp. 3-69, 121-138, ed. by E. S. Joynes (Holt & Co.)

FRANCOIS COPPÉE, Contes Choisis, ed. by Margaret F. Skeat, (Macmillan).

1906: LAMENNAIS, Paroles d'un croyant, Chaps. VII. and XVII; PERRAULT, le Maître Chat ou le Chat Botté; DUMAS, Un nez gelé, and la Pipe de Jean Bart; ALPHONSE DAUDET, la Dernière classe, and la Chèvre de M. Seguin; LEGOUVÉ, la Patte de dindon; POUVILLON. Hortibus; LOTI. Chagrin d'un vieux forçat; MOLIÈRE, l'Avare, Acte III, sc. 5 (Est-ce à votre cocher....sous la mienne); VICTOR HUGO, Waterloo, (Chap. IX); ROUGET DE L'ISLE, la Marseillaise; ARNAULT, la Feuille; CHATEAUBRIAND, l'Exilé; THÉOPHILE GAUTIER, la Chimère VICTOR HUGO, Extase;

Lamartine, l'Automne; **De Musset**, Tristesse; **Sully Prudhomme**, le Vase brisé; **La Fontaine**, le Chêne et le Roseau.

Labiche, Le Voyage de Monsieur Perrichon.

Mérimée, Quatre contes, ed. by F. C. L. Steenderen (Holt & Co.)

Two examination papers.

German.

The prescription of work in grammar, translation of English into German and sight translation is the same for Senior as for Junior, but the examination will be of a more advanced character.

The following are the prescribed texts:—

1905: **Grimm**, Rotkäppchen; **Andersen**, Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bär; **Ertl**, Himmelsschüssel; **Frommel**, Das eiserne Kreuz; **Baumbach**, Nicotiana, Der Goldbaum; **Heine**, Lorelei, Du bist wie eine Blume; **Uhland**, Schäfer's Sonntagslied, Das Schloss am Meer; **Chamisso**, Das Schloss Boncourt; **Claudius**, Die Sterne, Der Riese Goliath; **Goethe**, Mignon, Erlkönig, Der Sänger; **Schiller**, Der Jüngling am Bache.

Leander, Träumereien, pp. 45-90 (selected by Van Daell).

Baumbach, Der Schwiegersohn.

Elz, Er ist nicht eifersüchtig.

Wichert, Post Festum.

1906: **Grimm**, Rothäppchen; **Andersen**, Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bär; **Ertl**, Himmelsschüssel; **Frommel**, Das eiserne Kreuz; **Baumbach**, Nioctiana, Der Goldbaum; **Heine**, Lorelei, Du bist wie eine Blume; **Uhland**, Schäfer's Sonntagslied, Das Schloss am Meer; **Chamisso**, Das Schloss Boncourt; **Claudius**, Die Sterne, Der Riese Goliath; **Goethe**, Mignon, Erlkönig, Der Sänger; **Schiller**, Der Jüngling am Bache; **Baumbach**, Waldnovellen **Ebner-Eschenbach**, Die Freiherren von Gemperlein **Wilhelmi**, Einer muse heiraten **Benedix**, Eigensinn.

Two examination papers.

English.

Composition.—An essay, to which special importance will be attached, on one of several themes set by the examiners.

One examination paper.

Literature.—The candidate will be expected to have memorized some of the finest passages. Besides questions to test the candidate's familiarity with, and comprehension of, the following selections, questions may also be set to determine within reasonable limits his power of appreciating literary art.

Rhetoric.—Reading of prose authors in connection with the study of rhetoric.

One examination paper.

1905: LONGFELLOW, Evangline, The Day is Done, The Old Clock on the Stairs, The Fire of Driftwood, Resignation, The Warden of the Cinque Ports, The Bridge, A Gleam of Sunshine.

WORDSWORTH: "Three years she grew in sun and shade," "She was a Phantom of delight," "There is a Flower, the lesser Celandine," To a Skylark ("Ethereal Minstrel! pilgrim of the sky") The Green Linnet, to the Cuckoo, "With little here to do or see,"

SHAKESPEARE, Macbeth, Richard II.

1906. COLERIDGE: The Ancient Mariner.

WORDSWORTH: Michael, Influence of Natural Objects, Nutting, Expostulation and Reply, The Tables Turned, The Solitary Reaper, Ode to Duty, Elegiac Stanzas, To the Rev. Dr. Wordsworth; "She was a Phantom of delight," To the Cuckoo, The Green Linnet, "Bright Flower! whose home," To a Skylark, ("Ethereal Minstrel, pilgrim of the sky"), Reverie of Poor Susan, To my Sister, "Three years she grew," September, 1819, Upon the same Occasion.

The following twelve sonnets: "Two Voices are there," "A flock of sheep that leisurely," "Earth hath not anything," "It is not to be thought of," "Fair Star of evening," "O Friend! I know not," "Milton! thou should'st," "When I have borne in memory," "Brook: whose society," "Scorn not the sonnet," "Tax not the royal Saint," "They dreamt not of a perishable home."

SHAKESPEARE: The Merchant of Venice, Henry V.

HISTORY.

English History from the discovery of America to 1763.
General outlines of Greek History to the fall of Corinth.
General outlines of Roman History to the death of Augustus.
The Geography relating to the History prescribed.
One examination paper.

PHYSICS.

Mechanics.—Measurement of velocity; uniformly accelerated rectilineal motion; metre; units of force, work, energy and power; equilibrium of forces acting at a point; triangle, parallelogram, and polygon of forces; parallel forces; principle of moments; centre of gravity; laws of friction; numerical examples.

Hydrostatics.—Fluid pressure at a point; pressure on a horizontal plane; pressure on an inclined plane; resultant vertical pressure, and resultant horizontal pressure, when fluid is under air pressure and when not; transmission of pressure; Bramah's press; equilibrium of liquids of unequal density in a bent tube; the barometer; air-pump; water-pump, common and force; siphon.

Electricity.—Voltaic cells, common kinds; chemical action in the cell; magnetic effects of the current; chemical effects of the current; voltameters; electroplating; astatic and tangent galvanometers; simple notions of potential; Ohm's law; shunts; measurement of resistance; electric light, arc and incandescent; current induction; induction coil; dynamo and motor; the joule and watt; electric bell; telegraph; telephone; elements of terrestrial magnetism.

One examination paper.

CHEMISTRY.

Chemical Theory.—The study of the following elements, with their most characteristic compounds in illustration of Medelejeff's Classification of the Elements; Hydrogen, Sodium, Potassium; Magnesium, Zinc; Calcium, Strontium, Barium; Boron, Aluminium; Carbon, Silicon, Tin, Lead, Nitrogen, Phosphorus, Arsenic, Antimony, Bismuth; Oxygen, Sulphur; Fluorine, Chlorine, Bromine, Iodine; Manganese, Iron. Elementary Qualitative Analysis.

A practical examination will be held in connection with this subject, a pure salt will be sent out for qualitative analysis, and the candidate shall be allowed the use of an analytical table.

One examination paper.

BIOLOGY.

1. *Elements of Zoology.*—Thorough examination of the external form, the gills and the viscera of some common fish. Study of the prepared skeleton of the same. Demonstration of the arrangement of the muscular and nervous systems and the sense organs, as far as these can be studied without the aid of the microscope.

Comparison of the structure of the frog with that of the fish. The skeleton of the pectoral and pelvic girdles, and of the appendages of the frog, should be studied and the chief facts in the development of its spawn till the adult form is attained should be observed.

Examination of the external form of a turtle and a snake.

Examination of the structure of a bird or a fowl.

Study of the skeleton and also of the teeth of a cat or dog.

Study of the crayfish as a type of the Arthropods.

Comparison of the crayfish with an insect (grasshopper, cricket or cockroach); also with a millipede and a spider.

Examination of an earthworm.

Study of a fresh-water mussel.

The principles of zoological nomenclature, as illustrated by some of the common fresh water fish, such as the sucker and herring, bass and perch.

Study of an amœba or paramœcium as a type of unicellular animal;

The modifications of the form of the body in vertebrates in connection with different methods of locomotion.

2. *Elements of Botany.*—The examination will test whether the candidate has practically studied representatives of the flowering plants of the locality in which the preparatory school is situated, and representatives of the chief sub-divisions of cryptogams, such as a fern, a lycopod, a horsetail, a liverwort, a moss, a lichen, a mushroom, and a chara.

An elementary knowledge of the microscopic structure of the bean and the maize. Attention will be given in the examination to drawing and description of parts of plants supplied, and to the classification of these. Comparison of different organs, morphology of root, stem, leaves and hair, parts of the flower, reproduction of flowering plants, pollination, fertilization, and the nature of fruit and seeds.

A practical examination will be held in connection with this subject. The material for examination will consist of two plants, a microscopic section and an animal.

Two examination papers.

ARTICLE III.—ARTS MATRICULATION SCHOLARSHIPS, 1904.

A Scholarship cannot be held without attendance on the University classes. To be eligible for free tuition in the remaining sessions of his course the scholar must pass his annual examination to the satisfaction of the Senate. To hold a Scholarship a candidate must be fully matriculated.*

I.—The following Scholarships, of the values specified, are awarded on the July Departmental Senior Matriculation (Form IV) examinations.

Candidates for Senior Matriculation Scholarships must take Honours in the department or departments specified in connection with the Scholarship.

Name and Source of Money.	*Free Tuition.*	*Total Value.*	*Subjects.*
1. Prince of Wales. $60. Founded by H.M. King Edward VII......	$100	$160	Mathematics, Chemistry and Physics.
2. Governor-General. $75. Given by His Excellency the Earl of Minto, LL.D.........	100	175	Classics.
3. Chancellor. $100. Founded by Sir Sandford Fleming, K.C.M.G., Chancellor..	100	200	Mathematics.
4. Williamson No. 1. $65. Founded in memory of the late Vice-Prin., Rev. Dr. Jas. Williamson.	100	165	Classics and English.
5. Williamson No. 2. $60. Founded in memory of the late Vice-Prin., Rev. Dr. Jas. Williamson.	100	160	Classics and French or German
6. Leitch Memorial No. 1. $60. Founded in memory of the late Principal Leitch...	100	160	English, Chemistry and Physics or Botany.

ARTICLE III.—ARTS MATRICULATION SCHOLARSHIPS, 1904.—(Continued.)

Name and Source of Money.	*Free Tuition.*	*Total Value.*	*Subjects.*
7. NICHOLLS FOUNDATION No. 1. $50. Founded by the late Charlotte Nicholls, of Peterboro'.....	$100	$150	English, French and German.
8. MAYOR. $50. Given by the Mayor of Kingston.	100	150	Latin, French and German.
9. MOWAT. $50. Founded by the late John Mowat, Esq., of Kingston......	100	150	Mathematics.
10. FORBES MCHARDY. $25. Founded by the late Forbes McHardy, Esq., Toronto......	100	125	Mathematics, French and German.

II.—The following Scholarships, of the values specified, are awarded on the July Departmental Junior Matriculation (Form III) examinations for proficiency in the subjects indicated.

Name and Source of Money.	*Free Tuition.*	*Total Value.*	*Subjects.*
1. NICHOLLS FOUNDATION No. 2. $30. Founded by the late Charlotte Nicholls, Peterboro'...	$100	$130	General proficiency. Part II, Junior Matriculation.
2. KINGSTON. $25. Given by the Hon. Wm. Harty, M.P., for Kingston....	100	125	Do.
3. NICHOLLS FOUNDATION No. 3. $20. Founded by the late Charlotte Nicholls, Peterboro'....	100	120	Do.

ARTICLE III.—ARTS MATRICULATION SCHOLARSHIPS, 1904.—(Continued.)

III.—The following Scholarships have been endowed under special conditions.

Name and Source of Money.	*Free Tuition.*	*Total Value.*	*Subjects.*
1. WATKINS. $60. Founded by the late John Watkins, Esq., Kingston....	$100	$160	Given to the student of the Kingston Collegiate Institute who stands highest in the Form IV examinations.
2. McLENNAN GLENGARRY FOUNDATION. $50 a year for four years. Founded by R. R. McLennan, M.P., Alexandria......	100	300	General proficiency. Given only to candidates of one of the High Schools of the County of Glengarry.
3. MARION STEWART McDONALD. $75. Founded by John S. McDonald, Esq., Fond du Lac., Wis..		75	General proficiency. Given only to candidates from the County of Glengarry.
4. THE FRONTENAC....	100	150	Given only to candidates from Sydenham High School.

Notice of intention to compete for Scholarships must be sent to the Registrar before May 23rd, 1904, on a form which will be supplied on application.

*Candidates who wish to present certificates for any part of Matriculation will forward them with the notice.

ART. IV. UNIVERSITY PRIZES, MEDALS AND SCHOLARSHIPS.

SPECIAL SCHOLARSHIPS.

THE RHODES SCHOLARSHIP.

Queen's University will in 1905 select a candidate for the Rhodes Scholarship, value £300 a year, tenable for three years. A qualifying examination will be held in February or March, 1905. The elected scholar will commence residence at Oxford in October, 1905. The examination is not competitive, but is intended to give assurance that the candidate is fully qualified to enter on a course of study at Oxford University. It will therefore be based on the requirements for Responsions*,—the first public examination exacted by Oxford University from each candidate for a degree.

The Rhodes scholar will be selected from candidates who have successfully passed this preliminary examination.

The scholar shall have reached at least the end of his sophomore or second year work at Queen's University. Candidates must be unmarried, must be British citizens, and must be between 19 and 25 years of age. Candidates must give notice of their intention to write on the competitive examination by January 31st, 1905.

EXHIBITION OF 1851, SCIENCE RESEARCH SCHOLARSHIP.

This scholarship, of the annual value of £150 stg., is awarded by Her Majesty's Commissioners for the Exhibition of 1851 to students who have given evidence of capacity for original research, and (except in very special circumstances) are under 30 years of age.

The nominee must be a British subject, must have been a *bona fide* student of this University for three years, must have been a student of this University for a full year immediately before his nomination, must be a student of this University at the time of his nomination, (or he must have been a student at this University for a full year ending within twelve months prior to his nomination and since ceasing to be such student must have been engaged solely in scientific study) and must pledge himself not to hold any position of emolument whilst holding the scholarship. He is recommended to the Commissioners by the Senate of the University. The scholarship may be held for a second year, if the report of the first year's work be satisfactory to the Commissioners. The scholar will, in the absence of special circumstances, be required to proceed to an institution other than that by which he is nominated, and there pursue some investigation likely to promote technical industries or scientific culture. The particular investigation the student proposes to pursue must be stated before a scholarship can be awarded.

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*For particulars regarding Responsions write Registrar for special circular.

The next recommendation will be made by the Senate in April, 1905.

Science Research Scholars recommended by Queen's University:—

Norman R. Carmichael, M.A., 1894-95.
Thomas L. Walker, M.A., 1896-7.
Frederick J. Pope, M.A., 1898-9.
Wm. C. Baker, M.A., 1900.
C. W. Dickson, M.A., 1901-3.

PRIZES.

These are prizes for literary articles, essays, etc., as specified under each particular prize, and are open to students of the present or preceding session.

Conditions of Competition.—1. Competitive papers must be given to the Registrar not later than 21st of March.

2. Each paper is to bear a motto, instead of the author's name and must have attached to it a sealed envelope, bearing the same motto and containing a written declaration over the author's signature, to the effect that it is his unaided composition.

3. The envelope attached to successful papers shall be opened and the writer's name made known at the Convocation at the close of the session.

4. The best productions must be reported by the examiners to be of sufficient merit.

5. All successful productions shall be the property of the University, and be at the disposal of the Senate.

A.—LEWIS.

Value $25. Given for the best lecture on Acts XXVI, 15-20.

B.—GOWAN FOUNDATION NO. I.

Value $25. Given by the Honourable Senator Gowan, C.M.G., LL.D., for the best essay on "Immigration."

C.—GOWAN FOUNDATION NO. II.

Value $25. Given by the Honourable Senator Gowan, C.M.G., LL.D., for "The best Collection of Canadian Plants." The collection must be delivered before the 15th of December.

D.—GOWAN FOUNDATION NO. III.

Value $25 in Books. Given by the Honourable Senator Gowan, C.M.G., LL.D. Given in Honours in Political Science.

E.—LATIN AND GREEK COMPOSITION.

Two prizes, each of the value of $10 in books, are offered for competition for the best composition in Latin and Greek prose respectively. Subjects for composition, 1904-1905: Latin prose, Mackail, Latin Literature, p. 222, "Juvenal is the most savage.... impressed on our memory." Greek prose, Grote's History of Greece, Chap. XLIX, beginning with, "When it was found," ending "In any ordinary times."

F.—SPECIAL FRENCH AND GERMAN PRIZES.

Two prizes, each of the value of $10 in books, are offered for the best examination in April in Senior French and Senior German respectively.

SCHOLARSHIPS IN ARTS AND PRACTICAL SCIENCE.

I.—THE CHANCELLOR'S PRACTICAL SCIENCE SCHOLARSHIP.

Value $70. Given by Sir Sandford Fleming, C.E., K.C.M.G., LL.D., Chancellor of the University. Awarded to the Practical Science student passing the best examination at the end of first year.

2.—SCHOLARSHIP IN CHEMISTRY.

Value $50. Given by a graduate in Chemistry. Awarded annually to the student of any faculty who makes the best marks on an examination set, in April, upon the curriculum of the Senior Chemistry class. Candidates may have previously taken Preliminary Honour Chemistry. The holder of this Scholarship must proceed with the course in Honour Chemistry.

3.—NEW YORK QUEEN'S ALUMNI SCHOLARSHIP IN BIOLOGY.

Value $50. Given by the New York Queen's University Society and awarded to the student in Arts or Medicine who obtains the highest number of marks in the honour examination in physiology and histology.

4.—THE ANN ELIZA STAFFORD SCHOLARSHIP IN ANIMAL BIOLOGY.

Value $40. Founded by T. T. Bower, Esq., Toronto. Awarded to a graduate in first-class honours in Animal Biology who is competent to undertake research work in physiology. The holder must be willing to devote himself exclusively to research and must carry on his investigations in the University laboratories for at least one year from the date of his appointment.

5.—THE M. C. CAMERON SCHOLARSHIP IN GAELIC.

Value $40. Founded by the late M. C. Cameron, M.P., Goderich. Awarded to the best Gaelic scholar, reader and speaker.

The examination takes place after the September Matriculation examination. Work prescribed: Ossian's Fingal, Duncan Ban MacIntyre's Poems, Blackie's Language and Literature of the Scottish Highlands. Translation at sight of Gaelic into English and English into Gaelic. This Scholarship will not be awarded to any candidate who does not take at least 50 per cent. of the total number of marks in the examination.

6.—THE HIRAM CALVIN SCHOLARSHIP IN LATIN.

Value $25. Given by Hiram Calvin, M.P., Kingston, to encourage the study of Latin in the University. Awarded on the result of the April examinations in Senior Latin, to the best student who is proceeding to the Honour Course in Latin. Not to be held by any student unless in actual attendance. Not necessarily to be awarded, unless a certain degree of merit is shown.

7.—THE MACLENNAN SCHOLARSHIP IN GREEK.

Value $25. Given by Hon. Justice Maclennan, LL.D., Toronto, to encourage the study of Greek in the University. Awarded on the results of the April examinations in Senior Greek to the best student who is proceeding to the Honour Course in Greek. Not to be held by any student unless in actual attendance, and not necessarily to be awarded unless a certain degree of merit is shown.

8.—THE '01 FELLOWSHIP IN ENGLISH.

This Fellowship was established by the Class which graduated in 1901. It is awarded by the Senate to the student who is to act as Assistant Tutor in English during the following session.

MEDALS.

University medals will be awarded to the candidates who obtain the highest number of marks in the Honour courses leading to the degree of M.A.

Candidates for medals will be required at the final examination to take all the Honour papers in the work of the courses which they select. No medal will be awarded to any candidate who fails to obtain three-fourths of the whole number of marks.

SCHOLARSHIPS IN THEOLOGY.

I.—MATRICULATION SCHOLARSHIPS.

1.—DAVID STRATHERN DOW.

Founded in 1886 by David Strathern Dow, Esq., Whitby, Ont. Value $75.

2.—BUCHAN NO. 1.

Founded in 1875 by the late Rev. Alexander Buchan, Stirling, Ont. Value $65.

3.—BUCHAN NO. 2.

Founded by the late Rev. A. Buchan. Value $55.

4.—DOMINION.

Founded in 1870 by the late Walter Lawson, Scotland. Value $70.

5.—BUCHAN NO. 3.

Founded by the late Rev. A. Buchan. Value $45.

6.—M'INTYRE.

Founded in 1876, by Mrs. Margaret W. McIntyre, Perth, Ontario. Value $20.

II.—SCHOLARSHIPS AWARDED AT CLOSE OF SESSION.

1.—SARAH M'CLELLAND WADDELL MEMORIAL.

Founded in 1899, by Hugh Waddell, Esq., South Monaghan, Ont., in memory of his mother, Sarah McClelland. Value $120. Awarded upon the Sessional Examination at the close of the first year in Divinity, Old and New Testament Exegesis, Church History and Elocution.

2.—THE CHANCELLOR'S.

Awarded to the student of the second year who takes the highest standing in the Sessional examinations.

3.—SPENCE.

Founded in 1879, by the late Rev. Alex. Spence, D.D., formerly minister of St. Andrew's Church, Ottawa. Value $60. Awarded upon the Sessional Examination at the close of the first year in Divinity, Old and New Testament Exegesis, and Apologetics or Hebrew. Tenable during second or third year in Theology.

4.—LEITCH MEMORIAL NO. 2.

Founded in 1867, in memory of the late Principal Leitch, by subscribers in Scotland and Canada. Value $80. Awarded upon a Sessional Examination, and tenable during three successive years, should the successful candidate, after the completion of his Theological curriculum at this University, continue his studies at this or any European University. Candidates must have the degree of B.A. The next competition will take place in 1903. Subjects of examination: The Epistles to the Romans and Hebrews in Greek, Psalms I-XXV in Hebrew, Butler's Analogy, and the Divinity Lectures of the session.

5.—ANDERSON NO. 1.

Founded by the late Robert Anderson, Esq., Montreal. Value $40. Awarded in first year Divinity.

6.—ANDERSON NO. 2.

Founded by the late Robert Anderson, Esq. Value $35. Awarded in second year Divinity.

7.—THE TAWSE.

Founded by Miss Tawse, King, Ont. Value $40. Awarded in third year Divinity.

8.—TORONTO.

Founded by the Ladies' Association of St. Andrew's Church, Toronto. Value $60. Awarded in second year Hebrew.

9.—ST. ANDREW'S CHURCH, TORONTO.

Given by the Session of St. Andrew's Church, Toronto. Value $50. Awarded in Old and New Testament Exegesis.

10.—RANKINE.

Founded in 1881, by the late Alexander Rankine, Esq., Leamington, England. Value $55. Awarded in Apologetics.

11.—GLASS MEMORIAL.

Founded in memory of the late Henry Glass, Esq., of Sarnia, by his widow. Value $30. Awarded in Church History.

12.—MACKIE.

Given by the Rev. John Mackie, M.A., D.D., St. Andrew's Church, Kingston, for the best essay on St. Paul's use of the Old Testament. Essays to be handed in not later than Feb. 15th, 1905. For rules of competition see under prizes. Value $25 in books. May be taken by a student holding another scholarship.

13.—JAMES ANDERSON BURSARY.

Founded by the late James Anderson, Acton, Ont. Value $25. Awarded by the Senate to a student who can preach in Gaelic.

14.—WILLIAM MORRIS BURSARY.

Founded by the late Hon. Alexander Morris, in memory of his father. Value $50. Awarded by the Senate to a Divinity student taking a post-graduate course in the University.

PRIZES AND SCHOLARSHIPS IN MEDICINE.

PRIZES.

1. At the end of the second session.

Two demonstrators and four prosectors in Anatomy will be chosen by the Professor of Anatomy and the Lecturer on Practical Anatomy.

A prize of $25 will be awarded to the student making the highest number of marks on this year's examination in Anatomy, Physiology and Materia Medica.

2. At the end of the third session.

Some standard work on Medicine (value $10.00), presented by Dr. Geo. Hayunga, of New York, will be awarded to the student making the highest percentage of marks on the year's examination in Materia Medica, Therapeutics and Pharmacy.

3. At the end of the fourth session.

A prize of $25.00, given by Dr. C. H. Clarke to the fourth year student passing the best examination on the subject of Mental Diseases.

THE CHANCELLOR'S SCHOLARSHIP.

Given by Sir Sandford Fleming, C.E., K.C.M.G., LL.D. Value $70. Awarded to the student taking the highest percentage at all the examinations of the fourth year.

This scholarship is open only to students who take the examinations of the Ontario Medical Council and is tenable only on condition that the winner pursues the studies of the fifth year at Queen's as prescribed in the Calendar, or studies in Europe.

Candidates for this Scholarship must hand in their names to the Registrar before the examinations begin.

The student receiving this cannot hold it with the position of House Surgeon, but he may elect which he will hold.

MEDALS.

Two medals will be awarded as follows:

1. One medal to the final year student passing the best examination upon the following subjects:—Practice of Medicine, Clinical Medicine, Pathology, Bacteriology, Sanitary Science and Jurisprudence.

2. One medal to be awarded to the final year student passing the best examination upon the following subjects:—Surgery, Clinical Surgery, Obstetrics and Gynaecology, Medical and Surgical Anatomy.

HOUSE SURGEONS.

Three House Surgeons will be appointed at the Kingston General Hospital, for twelve months each, from among the students taking the highest stand in the examinations of the year. Candidates for these appointments must have passed all previous examinations. These appointments must be approved by the Board of Governors of the Kingston General Hospital.

ARTICLE V.—TEACHERS' CERTIFICATE.

1. Teachers' Certificates which are of sufficiently recent date will be accepted *pro tanto.*

2. Second Form, Primary, Public School Leaving, or Part I Junior Leaving certificates will be accepted as the equivalent of Part I Matriculation, and Second Class and Part II Junior Leaving certificates for Part II Junior Matriculation, so far as the subjects correspond.

3. Any person presenting a Junior Leaving certificate of Ontario will be permitted to enter upon a University course, but in his first examination must include any two of Junior Latin, Greek, French or German.

4. First Class, Senior Leaving, or Form IV certificates of Ontario will be accepted for Senior Matriculation, so far as they cover the subjects of Matriculation.

5. Any person presenting a Senior Leaving certificate of Ontario with Science option will be permitted to enter upon a University course, but with his first examination must include either Junior Latin, Greek, French or German.

*6. Candidates who have taken forty per cent. on the Senior Matriculation or Senior Leaving papers in Latin, Greek, French, German, Mathematics, English, Chemistry, Physics, Botany, or Animal Biology, will, on payment of the Senior Matriculation *pro tanto* fee not be required to take the University Junior Class in the subject. As no student is allowed to pass more than five classes in a session (see clause 5, article VIII), any one entering under this clause will not be exempt from more than five classes. Students who are allowed four classes may complete their course in three years.

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*NOTE.—Candidates intending to avail themselves of this clause should write the Deputy Minister of Education, stating when and where they wrote, and have their marks forwarded to the Registrar, who will advise them the classes allowed.

7. Certificates from the different provinces will be accepted for the Junior Leaving and Senior Leaving certificates of Ontario as follows :—

Ontario	Jr. Leaving	Sr. Leaving.
Prince Edward Island	Second Class	First Class.
Nova Scotia	Grade XI	Grade XII.
New Brunswick	Second Class	First Class.
Quebec	Academy Grade III. University School AA.	
Manitoba	Second Class	First Class.
North-west Territories	Grade VII	Grade VIII.
British Columbia	Intermediate	Senior Academic

ARTICLE VI.—EXTRA-MURAL STUDENTS.

1. The Senate allows extra-mural students to enter upon the work of the Pass or Honour courses, and to present themselves for examination without attendance upon classes; but candidates for a degree must, before being registered, pass the Matriculation, or an examination accepted by the Senate as equivalent.

2. Extra-mural students must register and pay the registration fee of $10 and the tutorial fees, if any, before October 1st. The Registrar will then send them registration cards, and forward cards in the subjects upon which they propose to be examined the following April or September, to the Professors of the respective classes.

3. Extra-mural students must write the essays and exercises prescribed and send them to the Professors or Tutors of the subjects at the dates specified. For information regarding essays and exercises, and the fees to be paid to the Registrar for assistance by Tutors appointed by the Professors and acting under their supervision, see

the sections concerning extra-mural students in "Subjects of study for B.A. and M.A."

4. List of centres where extra-mural examinations are held may be had on application to the Registrar. If for special reasons a candidate is unable to write at one of these, a new centre may be established on payment of a fee of $5.00.

In all cases the examination fee must be paid in advance by the candidates, and in addition a fee of $1.00 for each local half-day examination by students writing away from the University.

5. Students must make application to the Registrar, at least three weeks before the beginning of the University examinations in April and September, for the papers on the particular subjects, as laid down in the Calendar, on which they propose to write.

6. Oral examinations in Final Honour Moderns and Practical examinations in Science must be taken at the University.

ARTICLE VII.—PERCENTAGE REQUIRED.

To take Pass Standing, 40 per cent.
To take Third Class Honours, 50 per cent.
To take Second Class Honours, 66 per cent.
To take First Class Honours, 75 per cent.

ARTICLE VIII.—PASS COURSES LEADING TO DEGREE OF B.A.

1. The course after Matriculation extends over four sessions. But students who are allowed four classes (see Clause 6, Art. V) may complete their course in three years.

2. Pass and Honour examinations are held annually in April, and Pass examinations in September also.

3. The degree of B.A. will be conferred on candidates who take—

(*a*) Pass Standing in the Pass Classes and second or third class Honours in the Honour classes of any of the Honour courses, or (*b*) Pass standing in the Pass classes and at least third class Honours in the Honour classes in either of the following Pass courses:

COURSE I.

A.—(1) Junior and Senior Latin.
  (2) Junior and Senior Greek. *(a)* ⎫
  (3) Junior and Senior French. ⎬ Any one.
  (4) Junior and Senior German. ⎭

B.—(1) Junior and Senior English.
  (2) Mental and Moral Philosophy.
  (3) Mediaeval History or Economics.
  (4) Junior Mathematics.

C.—Any two of Junior Physics, Junior Chemistry, Botany, Animal Biology, Mineralogy, Geology, Junior Hebrew.

D.—Any two of the following:
  (1) Any two not taken under B, of Mediaeval History, English Constitutional History, Economics, Politics.
  (2) Junior and Senior Greek.*
  (3) Junior and Senior French.*
  (4) Junior and Senior German.*
  (5) Senior Hebrew.
  (6), (7) Any two of Senior Mathematics, Senior Physics, Senior Chemistry and the classes not taken in C.
  (8), (9) Preliminary Honours (at least third class) in either Latin, Greek, French, German, History, Philosophy, Political Science, Physics, Botany, Animal Biology, Chemistry, Mineralogy or Geology.
  (10) Intermediate Honours (at least third class) in English.
  (11) Honours in Mathematics as specified under Honour Mathematics.
  (12) Final Honours (at least second class) in any class in (8), (10), (11).

*Only for those who have not taken them.

(a) Students taking Greek will be required to take only one of the classes in C.

COURSE II.

A.—1. Junior Latin. ⎫
  2. Junior Greek. ⎪
  3. Junior French. ⎬ Any two.
  4. Junior German. ⎭

B.—1. Junior and Senior English.
  2. Mental or Moral Philosophy.

3. Junior and Senior Mathematics.
4. Junior Physics.
5. Junior Chemistry.

C.—Any two of: Botany, Animal Biology, Mineralogy, Geology, Senior Chemistry, Senior Physics.

D.—Any four of the following:—
(1) Senior Latin.
(2) Senior Greek.
(3) Senior French.
(4) Senior German.
(5) Junior Hebrew.
(6) Mediaeval and English Constitutional History.
(7) Economics and Politics.
(8) Moral Philosophy.
(9), (10) Any other two of those in C.
(11), (12), (13), (14), Preliminary Honours (at least third class) in either Latin, Greek, French, German, History, Philosophy, Political Science, Physics, Botany, Animal Biology, Chemistry, Mineralogy or Geology.
(15) Intermediate Honours (at least third class) in English.
(16) Honours in Mathematics as specified under Honour Mathematics.
(17) Final Honours (at least second class) in any class in (11), (15) or (16).

COURSE III.

Course for B.A. leading to the Degrees of B.A. and M.D. in six years.

A.—1. Junior Latin. } Any two.
2. Junior Greek. } Any two.
3. Junior French. } Any two.
4. Junior German. } Any two.

B.—1. Junior and Senior English.
2. Mental or Moral Philosophy.
3. Junior Mathematics.

C.—1. Junior Physics and Junior Chemistry.
2. Animal Biology and Medical Botany.
3. Junior and Senior Materia Medica.
4. Junior and Senior Anatomy.
5. Senior Physiology and Histology.
6. Senior Chemistry.

D.—1. Preliminary Honour Chemistry.
2. Preliminary Honour Animal Biology.

Examination on Translation in French or German at end of second, third and fourth years.

4. No student is allowed to take a Senior class before passing the Junior in the same subject.

5. No student is allowed to attend or pass more than five classes in any one year. A sixth class may be added if it be a subject in which he has already failed.

6. Students should take the Pass classes in English, Classics, French, German and Mathematics in the first two years of their course.

ARTICLE IX.—HONOUR COURSES.

1. *Students preparing for the position of High School Master are recommended to take one of the courses that qualify for Specialists' Certificates under the Departmental Regulations.*

2. The degree of M.A. will be conferred on students who take Pass standing in the Pass classes, and first class Honours in the Honour classes, in any one of the following courses.

3. The degree of B.A. will be conferred on candidates who take Pass standing in the Pass classes, and second or third class Honours in the Honour classes of any one of the following courses:

4.—COURSE A.—LITERATURE AND PHILOSOPHY.

PASS CLASSES.

A.—1. Junior and Senior Latin.
2. Junior and Senior Greek. *(a)*
3. Junior and Senior French. } Any one.
4. Junior and Senior German.

B.—1. Junior English.
2. Senior English. } Three.
3. Mental or Moral Philosophy.

C.—1. Junior Mathematics.
2. Animal Biology. } One.
3. Botany.

D.—1. Junior and Senior Greek.*
2. Junior and Senior French.*
3. Junior and Senior German.* } Any two.
4. Moral Philosophy.
5. Economics and Politics.
6. Mediaeval and English Constitutional History.

*Only for those who have not taken them.

HONOUR CLASSES.

1. Preliminary and Final Honour Latin. 2. Preliminary and Final Honour Greek. 3. Preliminary and Final Honour French. 4. Preliminary and Final Honour German. 5. Preliminary, Intermediate and Final Honour English. 6. Preliminary and Final Honour History. 7. Preliminary and Final Honour Political Science. 8. Preliminary and Final Honour Mental Philosophy. 9. Preliminary and Final Honour Moral Philosophy.	Any Two.

(a) Students taking Greek will not be required to take the class in C.

5.—COURSE B.—MATHEMATICS AND PHYSICS.

PASS CLASSES.

Junior English. Senior English. Junior Mathematics. Senior Mathematics. Junior Physics. Senior Physics. Mental or Moral Philosophy.	Seven.
Medieval History. Economics. Mental or Moral Philosophy. Junior Chemistry.	Any one.
Junior Latin. Senior Latin. Junior Greek. Senior Greek. Junior French. Senior French. Junior German. Senior German.	Any two.

One of the following Honour Groups:

1. Mathematics—Comprising Honour Mathematics, Preliminary Honour Physics and Practical Astronomy.

2. Physics—Comprising Preliminary and Final Honour Physics, subjects 1, 2, 3, 4, 5, 6, 7, of Honour Mathematics, and Descriptive Astronomy.

6.—COURSE C.—SCIENCE.

PASS CLASSES.

Junior English. Senior English. Junior Mathematics. Senior Mathematics. Mental Philosophy Junior Physics. Senior Physics. Junior Chemistry. Senior Chemistry.	Nine.

Junior Latin.
Senior Latin.
Junior Greek.
Senior Greek.
Junior French. } Any two.
Senior French.
Junior German.
Senior German.
Moral Philosophp.

One of the following Honour Groups:

1. Preliminary and Final Honour Chemistry and Preliminary and Final Honour Experimental Physics.

2. Preliminary and Final Honour Chemistry, with either Preliminary and Final Honour Botany or Preliminary and Final Honour Animal Biology.

3. Preliminary and Final Honour Chemistry, Preliminary and Final Honour Geology, Preliminary and Final Honour Mineralogy.—Any two.

Specialists' Courses.

7. By agreement with the Education Department, candidates taking either the M.A. or B.A. degree under any one of the following Honour Courses will receive the non-professional qualification of Specialist.

8. The degree of M.A. will be conferred on students who take Pass standing in the Pass classes and first class Honours in the Honour classes in any one of the following courses.

9. The degree of B.A. will be conferred on candidates who take Pass standing in the Pass classes and second or third class Honours in the Honour classes of any one of the following courses:

COURSE 1.—CLASSICS.

Pass Classes.

Junior and Senior Latin.
Junior and Senior Greek.
Junior and Senior English.
Mental and Moral Philosophy.
Junior Mathematics.
English Constitutional History.
Junior Physics.
Junior Chemistry. } Any one.
Pass Animal Biology.

Honour Classes.

Honour Latin, Preliminary and Final.
Honour Greek, Preliminary and Final.

Preliminary Honour Latin and Greek include the Roman and Grecian History.

Course II.—English and History (Classics Option).

Pass Classes.

Junior and Senior Latin.
Junior and Senior Greek.
Junior and Senior English.
Mental or Moral Philosophy.
Junior Mathematics.
Mediaeval and English Constitutional History.
Junior Physics.
Junior Chemistry. } Any one.
Pass Animal Biology.

Honour Classes.

Honour English, Preliminary, Intermediate and Final.
Honour History, Preliminary.
Honour Greek, Preliminary.
Honour Latin, Preliminary.

Course III.—English and History (Moderns Option).

Pass Classes.

Junior and Senior Latin.
Junior and Senior French.
Junior and Senior German.
Junior and Senior English.
Junior Mathematics.
Mediaeval and English Constitutional History.
Mental or Moral Philosophy.
Junior Physics.
Junior Chemistry. } Any one.
Pass Animal Biology.

Honour Classes.

English, Preliminary, Intermediate and Final Honours.
History, Preliminary Honours.
French, Preliminary Honours.
German, Preliminary Honours.

Course IV.—French and German.

Pass Classes.

Junior and Senior Latin.
Junior and Senior French.
Junior and Senior German.
Junior and Senior English.
Junior Mathematics.

Mediaeval and English Constitutional History.

Junior Physics. Junior Chemistry. Pass Animal Biology.	Any one.

Honour Classes.

English, Intermediate Honours.
French, Preliminary and Final Honours.
German, Preliminary and Final Honours.

COURSE V.—MODERNS, (ENGLISH, FRENCH AND GERMAN), AND HISTORY.

Pass Classes.

Junior Latin.
Senior Latin.
Mental or Moral Philosophy.
Junior and Senior German.
Junior and Senior French.
Junior and Senior English.
Junior Mathematics
Mediaeval and English Constitutional History (Honour standing required).
Moral Philosophy.

Junior Physics. Junior Chemistry. Pass Animal Biology.	Any one. ,

Honour Classes.

Honour English, Preliminary, Intermediate and Final A.
Honour German, Preliminary and Intermediate.
Honour French, Preliminary and Intermediate.

COURSE VI.—MATHEMATICS.

Pass Classes.

Junior Latin.
Junior French, German or Greek.
Junior and Senior English.
Mental Philosophy.
Junior and Senior Physics.
Junior and Senior Mathematics.

Honour Classes.

Preliminary Honour Physics, with Practical Astronomy.
Honour Mathematics.

COURSE VII.—MATHEMATICS AND PHYSICS.

Pass Classes.

Junior Latin.
Junior French, German or Greek.
Junior and Senior English.

Mental or Moral Philosophy.
Junior and Senior Physics.
Junior and Senior Mathematics.

Honour Classes.

Preliminary Honour Physics, with Descriptive Astronomy.
Final Honour Physics.
Honour Mathematics, No. 1, 2, 3, 4, 5, 6, 7.

COURSE VIII.—SCIENCE.

Pass Classes.

Junior Latin.
Junior French, German or Greek.
Junior and Senior English.
Junior and Senior Mathematics.
Junior and Senior Physics (Laboratory Practice in both).
Junior and Senior Chemistry.
Botany.
Animal Biology.
Mineralogy.
Geology.

Honour Classes.

Preliminary Honour Chemistry.
Preliminary Honour Botany.
Preliminary Honour Animal Biology.

Together with any one of the following groups:

(a). Final Honour Botany and Final Honour Animal Biology.
(b). Experimental Honour Physics and Final Honour Chemistry.
(c). Final Honour Chemistry and Preliminary and Final Honour Mineralogy.
(d). Preliminary Honour Mineralogy and Preliminary and Final Honour Geology.

16. Students intending to teach in Ontario are referred to the Calendar of the Ontario Normal College for information regarding Professional Examinations.

17. By a regulation of the Educational Department, any person who has spent two years as a registered student in post-graduate work at Queen's, may write at the final examination of the Ontario Normal College without attendance.

ARTICLE X. SUBJECTS OF STUDY FOR B.A. AND MA.

LATIN.

Professor.—Walter J. Pike, M.A.

Asst.—Professor A. B. Nicholson, B.A.

Tutors.—B. S. Black, J. P. Quigley, M.A.

Junior Class.

Translation from the books specified with questions on the Grammar and subject matter. Allen's Latin Grammar (Clarendon Press) is used in class.

Latin Prose Composition based on the books read and Fletcher & Henderson's Latin Prose Composition, sections 1-40.

A knowledge of Roman Antiquities from Ramsay's Elementary Manual.

Translation of simple Latin at sight.
Cicero, *Pro Milone,* (Reid, Greenough & Kittredge).
Horace, *Odes I,* (Gow).
Vergil, *Aeneid VI,* (Page, Sidgwick).

Extra-mural students are charged a fee of $3 for the examination of the exercises to be done during the session. Lecture cards to be sent to Professor Nicholson.

Senior Class.

Translation from the books specified with questions on the Grammar and subject matter. These books illustrate Roman Oratory and History, and Epic and Dramatic Poetry.

Translation at sight and Latin Composition based on the books read and Fletcher & Henderson's Latin Prose Composition, sections 41—64.

Outlines of Roman History and Literature from 14-180 A.D.
Cicero, *Pro Murena,* (Heitland, Freese).
Livy V., (Whibley).
Vergil, *Aeneid X.,* (Sidgwick, Owen).
Terence, *Adelphi* (Sloman: Clarendon Press).

Useful books of reference and the best editions of the prescribed texts are retained in the Class Library during the session for the use of students.

Honours.

Candidates for Preliminary and Final Honours in Latin should note that special stress is laid on Composition and Sight Translation. Passages will also be set from the books specified below, good editions of which are recommended in each case, while the best plain text is that of the Bibliotheca Oxoniensis and where this is not yet available, the Teubner. The Roman History required from candidates for Specialist certificates is included in the Preliminary Honour examination, and must be taken. The course comprises the main facts of the History and Literature of Rome to the death of Marcus Aurelius.

The following are excellent books tor use, reference and private reading:—Lewis & Short's Latin-English Dictionary. Harper's New Classical Dictionary by Peck, Mackail's Latin Literature, Allen & Greenough's New Latin Grammar. Histories of Rome by Merivale, Pelham & Mommsen, Johnston's Private Life of the Romans, Greenidge's Roman Public Life, Thompson's Handbook of Palaeography, Forsyth's Life of Cicero, Nettleship's Studies in Latin Literature and Sellar's Roman Poets (2 vols.). All such books and the best editions of the prescribed texts will be found in the consulting and loan departments of the University Library.

PRELIMINARY.

(This class must be taken at least one year before the final examinations. It may also be taken as a Pass Class).

Cicero, *De Natura Deorum, II* (Stickney), Cicero in his Letters: 1—40 (Macmillan).
Livy V., (Whibley).
Tacitus, *Annals I-III,* (Furneaux's small edition, Allen).
Vergil, *Aeneid,* Books I, II, IV, V, VI, X, XI, XII.
Horace, *Odes and Epistles I,* (Page, Wilkins & Palmer, in one vol., Macmillan).
Crowell's Selections from the Latin Poets.

FINAL.

Cicero, *De Natura Deorum II, Pro Murena, Philippic II* (Mayor, Peskett), Cicero in his Letters (Macmillan).
Livy V., (Whibley).
Tacitus, *Annals I-IV, Germania and Agricola* (Church & Brodribb).
Pliny, *Selected Letters*, (Merrill).
Suetonius, *Augustus,* (Shuckburgh).
Quintilian X (Frieze, Peterson).
Vergil and Horace complete.
Juvenal, *Thirteen Satires* (Pearson & Strong, second edition).
Plautus, *Trinummus and Captivi* (Harrington).
Crowell's Selections from the Latin Poets.
Allen's Remnants of Early Latin.

Extra-mural students of the Senior and Honour Classes are charged a fee of $5 for the examination of the exercises to be done during the session. Lecture cards to be sent to Professor Pike, who should be freely consulted on any question connected with the course.

GREEK.

Professor—T. Callander, M.A. (Abdn.), B.A. (Oxon).
Assistant—Professor A. B. Nicholson, B.A.
Tutor—W. H. MacInnes, B.A.

Junior Class.

Greek Grammar, (Goodwin).

Greek Composition. (Text-book: Fletcher & Nicholson's *Elementary Greek Prose Composition.*)

Translation from authors not specified.

Plato, *Charmides.*

Homer, *Odyssey IX-X.* (Merry.)

Lucian, *Vera Historia I.* (Jerram.)

Extra-mural students are charged a fee of $3 for the examination of the exercises which they must do during the session. Lecture cards to be sent to Professor Nicholson.

Senior Year.

Thucydides III (Macmillan).

Homer, *Odyssey I-IV* (Merry).

St. Paul, *Galatians.*

Greek Grammar and Composition.

Translation from authors not specified.

Honours

Candidates for Preliminary and Final Honours in Greek should note that special stress is laid on Composition and Unseen Translation. Passages will also be set for translation from the books specified below. The Greek History required from candidates for Special Certificates is included in the Preliminary Honour Examinations and must also be taken.

Books recommended:

Murray, *Greek Literature.*
Goodwin, *Greek Grammar.*
Grote, *History of Greece.*
Thirlwall, *History of Greece.*
Hogarth, *Philip and Alexander.*
Schuchhardt, *Schliemann's Excavations.*
Jebb, *Homer.*
Geddes, *Problem of the Homeric Poems.*

Instead of the editions mentioned below students may find it convenient to use the Teubner series.

Preliminary.

(The examination in this class must be taken at least one year before the final examination.)

Thucydides III.
Plutarch, *Solon, Pericles.*
Homer, *Odyssey I-XII* (Merry).
Euripides, *Orestes* (Wedd).
Sophocles, *Electra* (Jebb).
Aristophanes, *Birds* (Merry).
Greek Grammar and Composition.

Final.

Herodotus VIII, IX.
Thucydides III, IV.
Demosthenes, *De Corona* (Goodwin) and ***Olynthiacs*** **(Glover)**.
Plato, *Republic VIII-X* (Campbell & Jowett).
Aristotle, *Ethics I, II, X.*
Plutarch, *Solon, Pericles* (vol. I, Teubner).
Homer, *Odyssey.*
Aeschylus, *Agamemnon* (Sidgwick).
Prometheus (Sikes & Wilson).
Sophocles, *Electra Antigone* (Jebb).
Euripides, *Medea.*
Aristophanes, *Clouds* (Merry), *Knights* (Merry).
Pindar, *Olympians* (Gildersleeve).
Theocritus, *Selections.*

Students proceeding to Theology may take in the Preliminary course one of the Synoptic Gospels and The Acts of the Apostles in place of Plutarch, Solon and Pericles. In the Final course they may offer the Synoptic Gospel chosen and the fourth Gospel, The Acts of the Apostles, two Epistles of St. Paul and The Epistles to the Hebrews instead of Plutarch, Theocritus, one play of Anstophanes, one of Sophocles and the Olynthiacs of Demosthenes.

Extra-mural students of Senior and Honour Classes are charged a fee of $5 for the examination of the exercises which they must do during the session. Lecture cards to be sent to Professor Callander.

COMPARATIVE PHILOLOGY AND SANSCRIT.

PROFESSOR—A. B. Nicholson, B.A.

To meet the needs of those who desire to have some knowledge of linguistic processes three courses of lectures are arranged, the first, for those who have a knowledge of Latin and Greek ; the second, for those who know Latin but not Greek, and the third for those who wish to exted their knowledge of Comparative Philology by studying Sanscrit.

COURSE I.—Lectures on Greek and Latin Philology (one hour per week).

For reference: Henry's Compar. Grammar of Greek and Latin.
Brugmann's Compar. Grammar.

This course is strongly recommended to all Honour candidates in Greek and Latin.

COURSE II.—Phonetics and History of the Latin Language (one hour per week).

Text-books: Lindsay's Short Historical Latin Grammar.
Allen's Remnants of early Latin.

This course is intended for Honour students in Latin who have no knowledge of Greek.

COURSE III.—Elements of the Sanscrit Language (one hour per week).

Text books: Perry's Sanscrit Primer.
Whitney's Sanscrit Grammar.
Lanman's Sanscrit Grammar.

For consultation: A. A. MacDonell's Sanscrit Literature.
Kaegi's Rig-Veda translated by R. Arrowsmith.

GERMAN LANGUAGE AND LITERATURE.

PROFESSOR—J. Macgillivray, Ph.D., (Leipsic).

TUTORS—Miss Grace Clarke, W. H. Williams, M.A., W. McCormick, M.A.

JUNIOR CLASS.

Heyse, Hochzeit auf Capri (Heath & Co).
Carmen Sylva, Ein Gebet.
Baumbach, Waldnovellen (Heath & Co.)
Fraas, Geologie [1-50] (Sammlung Göschen.)
Benedix, Eigensinn (Heath & Co.)
Translation from authors not specified.
Grammar.
Writing German from Dictation.

Oral and Written Composition and Translation into German based on the works read.

SENIOR CLASS.

Sudermann, Frau Sorge (Henry Holt & Co.)
Fraas, Geologie.
Heyse, Der Verlorene Sohn.
Theodor Storm, Der Schimmelreiter.
Benedix, Die Hochzeitsreise.
Chamisso, Balladen (Balladenbuch, Macmillan & Co.)
Heine, Balladen (Balladenbuch, Macmillan & Co.)
Fuchs, Volkswirtschaftslehre.
Translation from authors not specified.
Writing German from Dictation.
Translation into German.
Oral and Written Composition based on the literature read.

HONOURS

Preliminary.

(The examination in this class must be passed at least one year before the intermediate, or intermediate and final, examination is taken. It may also be taken as a pass class. All honor work is conducted in German.)

Heyse, Novellen (Achter Band V, Gesammelte Werke, Hertz.)
Frenssen, Jörn Uhl (I-VIII.)
Schiller, Wilhelm Tell.
Gœthe, Faust I; Balladen (Macmillan's Balladenbuch).
Lessing, Nathan der Weise.
Translation from authors not specified.
Koch, Geschichte der Deutschen Literatur (Sammlung Göschen.)
Writing German from Dictation.
Translation into German.
Oral and Written Composition based on the works read.

Intermediate.

Heyse, Novellen (Achter Band V).
Frenssen, Jörn Uhl (I-XV.)
Schiller, Die Jungfrau von Orleans, Wilhelm Tell, Balladen (Balladenbuch).
Gœthe, Faust I, Iphigenie, Balladen (Balladenbuch).
Lessing, Wilhelm Tell.
Scheffel, Ekkehard.
Felix Dahn, Gelimer.
Elsenhans, Psychologie und Logik zur Einführung in die Philosophic (Sammlung Göschen.)
Braune, Gothische Grammatik (Ulfilas, Mark 3).
Clother, Das Nebelungenlied in Auswahl (Sammlung Göschen.)

Lyon, Deutsche, Grammatik und Kurze Geschichte der Deutschen Sprache.
Koch, Geschichte der Deutschen Litteratur.
Translation into German.
Oral and Written Composition, based on the works read.

Final.

(Unabridged editions only are to be used).
Heise, Novellen (Achter Band V).
Frenssen, Jörn Uhl.
Felix Dahn, Gelimer.
Freytag, Die Verlorene Handschrift.
Scheffel, Ekkehard, Der Trompeter von Säkkingen.
Deutsche Balladen (Macmillan's Balladenbuch).
Schiller, Don Carlos, Wallenstein, Maria Stuart, Die Jungfrau von Orleans, Wilhelm Tell.
Gœthe, Faust, Egmont, Torquato Tasso, Iphigenie.
Lessing, Nathan der Weise, Emilia Gallotti.
Braune, Gothische Grammatik (Ulfilas, Mark 3, 4, 5).
Wright's Primer of Old High German—Musspili, Das Ludwigslied, Otfrid's Evangelienbuch.
Colther, Dus Nibelungenlied in Auswahl (Sammlung Göschen.)
Behagel, Die Deutsche Sprache.
Kluge, Geschichte der Deutschen National-Litteratur.
Translation into German.
Oral and Written Composition based on the works read.

ROMANCE LANGUAGES AND LITERATURE.

Professor—P. G. C. Campbell, M.A., (Oxon.)

Tutor—W. H. Williams, M.A.

French.

Junior Class.

Ferdinand Fabre—L'Abbé Roitelet.
Anonymous—La Main Malheureuse (Heath & Co.)
Labiche—La Poudre aux yeux.
Richebourg—Le Million du Père Raclot.
Spiers – Junior French Reciter.
Labiche—La Grammaire.
La Fontaine—Fables Livre I.
Grammar.
Writing French from Dictation.
Written Composition based on the works read.

Note—Extra mural students for Prose should procure Grandgent-French Composition.

SENIOR CLASS.

Molière—Le Médecin malgré lui.
H. Gréville—Le Moulin Frappier.
George Sand—La Mare au Diable.
About—Le Roi des Montagnes
Labiche—Le Voyage de M. Perrichon.
Augier—Le Gendre de M. Poirier.
La Fontaine—Fables, Livres I, II.
Rosey—French Literature, (Blackie & Sons).
Unseen Translation.
Translation into French Prose (V. Spiers).
Writing French from Dictation.
Essays on the works read.

N.B.—For those who have taken the Junior French in the combined B.A. and M.D. course (page 52) the work in the next three years for examination will be :—

II YEAR—Le Voyage de M. Perrichon.
La Mare au Diable.
Unseen Translation of a scientific character.

III YEAR—Descartes—Discours sur la Méthode.
Unseen Translation of a scientific character.

IV YEAR—Cajal-Structure du Système Nerveux.
Unseen Translation of a scientific character.

HONOURS.

Preliminary.

(The examination in this class must be taken at least one year before the intermediate or final examination. It may also be taken as a pass class.)

Corneille—Le Cid.
Racine—Andromaque.
Molière—Tartuffe.
La Bruyère—Caractères I-X.
Descartes—Discours sur la Méthode.
Voltaire—Mérope.
Victor Hugo—Ruy Blas.
Pierre Loti—Pêcheur d'Islande.
Labiche—La Grammaire.
Writing from Dictation.
Translation into French Prose (V. Spiers.)

Outline of the History of French Literature with special reference to the 17th, 18th and 19th centuries.

Consult: Petit de Julleville, Leçons de Littérature Française.
The various studies of Sainte Beuve.
Brunétiere Manuel de l'Histoire de a Litt. Fran.

INTERMEDIATE.

(For those taking Specialist Course V.)

Translation from Unseen authors.
Translation into French Prose.
Composition in French.
Texts set (Unabridged Editions) for translation and study:—

Cent. XVII.—Corneille—Le Cid, Horace.
Molière—L'Avare.
Racine—Les Plaideurs, Andromaque.
Boileau—L'Art Poétique, Canto I.
Descartes—Discours sur la Méthode.

Cent. XVIII.—Rousseau—Contrat Social.
Beaumarchais—Le Barbier de Séville.
Chateaubriand—Atala, René.

Cent. XIX.—Victor Hugo—Les Orientales, I-X—Cromwell—Preface
Les Misérables (Fantine.)
De Tocqueville—L'Ancien Régime.
Balzac—Eugénie Grandet.
A. Daudet—Tartarin sur les Alpes.
Flaubert—Madame Bovary.

N.B.—A separate paper will be set on Descartes, Rousseau and De Tocqueville.

The Literary History of France and the principles, in outline, of Literary Criticism, study:—

Aristotle's Poetics (edited by Butcher.)

FINAL HONOURS.

In addition to the work set for Intermediate Honours the following work is prescribed:

Texts—La Fontaine—Fables VIII-X.
Molière—Les Précieuses Ridicules, Le Médecin Malgrè Lui.
La Bruyère—Caractères I-X.
Voltaire—Mérope.
V. Hugo—Ruy Blas.
Feuillet—Roman d' un jeune homme pauvre.

Philology and Phonetics:

Brachet—Grammaire Historique de la Langue Française.
Clédat—Chrestomathie du Moyen Age [Vie de Saint Aléxis, Chanson de Roland, Ami et Amile, Le Chevalier au Lion, Froissart.]

Consult also:

Cooper, "Word formation in Roman Sermo Plebeius."
Gröber—"Grundriss von Romanischer Philologie.
Meyer—"Grammaire des Langues Romaines.

Essays for 1904-5 for all Honour Students :—

Nov. 3rd—La Préciosité—its meaning, faults and merits.

Dec. 7th—The Three Unities—their real meaning and how misunderstood in France.

Jan. 28th—The influence of Voltaire and Rousseau on Politics and Literature.

Mar. 3rd—The meaning and aesthetic merits of the Realistic movement in French Literature—for Final Honours only.

These essays to be written in French.

ITALIAN.

Voluntary classes are held. No fee. Tickets to be obtained from the Registrar.

FIRST YEAR—Grammar—(Grandgent.)
Unseen Translation.
De Amicis—Il più bel Giorno della Vita.
Dante—Inferno I-II.

SECOND YEAR—Translation into Italian (Grandgent's Italian Composition.)
History of Italian Literature (Snell's Primer of Italian Literature.)
Dante—Inferno I-X.
Tasso—La Jerusalemme Liberata I-II.
Del Testa—Le Conscienze Elasticle.
Carcano—La Nunziata.
Unseen Translation.

SPANISH.

Valera—El Pájaro Verde (Ginn & Co.)
Moratin—El si de las Ninas (Ginn & Co.)
Alarcón—El Capitán Veneno (Heath & Co.)
Calderon—La Vida es Sueno (Heath & Co.)
Cervantes—Don Quixote (Heath & Co.)
Edgren's Grammar (Heath & Co.)
Ford's Composition (Heath & Co.)
Writing Spanish from Dictation.
Outline of the History of the Literature.

NOTE.—Extra-mural students of Modern Languages should obtain competent teachers for oral instruction as no candidate will be accepted who fails in the oral examination. Pass candidates may take the oral examination at outside centres, provided an examiner approved by the Senate be obtained; but Intermediate and Final Honour candidates must pass their oral examination at the University.

A tutorial fee of $3 is required for each pass class and $5 for each honour class.

ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR—James Cappon, M.A.

ASSISTANT-PROFESSOR—John Marshall, M.A.

TUTORS—Logie Macdonnell, B.A., George Lowe, M.A.

JUNIOR CLASS.

1. Practical course in Rhetoric and Composition.
2. Analysis of style in connection with the study of passages from Bacon, Addison, Johnson, Washington Irving, Macaulay, Ruskin, Carlyle, Burroughs.

Bacon's Essays (Of Truth, Of Studies). (Maynard, Merrill & Co., New York.)

Irving's Sketch-Book (Visit to Shakespeare's Birthplace, Rip Van Winkle). (Maynard, Merrill & Co.)

Macaulay's Essay on Boswell's Johnson. (Maynard, Merrill & Co.)

John Burroughs, Bees (Baldwin's Specimens of Prose Description. Henry Holt & Co., New York).

Carlyle, The Storming of the Bastille (Baldwin's Specimens).

3. A detailed study (in class) of the following:

Chaucer, Prologue to Canterbury Tales. (The descriptions of the Knight, Squire, Prioress, Monk, Friar, Student, Merchant, Franklin, Doctor, Shipman, Parson.)

Shakespeare, Julius Cæsar.

Longfellow, Prelude, Nuremberg, The Belfry of Bruges, The Skeleton in Armour, Amalfi, The Village Blacksmith, The Day is Done, The Secret of the Sea.

Tennyson, The Palace of Art, The Lady of Shalott, "Love Thou Thy Land," The Lord of Burleigh.

SENIOR CLASS.

I

(*a*) Shakespeare, Henry V.
Milton, Paradise Lost, Book I.

(*b*) Dryden, Epistle to Mr. Congreve, the Descriptions of Achitophel and Zimri in *Absolom and Achitophel,* Alexander's Feast.

Pope, Epistle to Arbuthnot (Satires).

Johnson, Vanity of Human Wishes.

Gray, Elegy, Ode on Eton College.

Collins, Ode to Liberty, Ode to the Passions.

Goldsmith, The Deserted Village.

Burns, The Cotter's Saturday Night, A Bard's Epitaph, To a Mouse, Whistle and I'll Come to ye my lad, Farewell to Nancy, Tam Glen.

(Read Gosse, Eighteenth Century Literature, chaps. I, III, IV, and IX, X, XI.

(c) Wordsworth, Ruth, Song at the Feast of Brougham Castle. Lines written near Tintern Abbey.
Keats, Ode on a Grecian Urn, On First Looking into Chapman's Homer.
Browning, A Grammarian's Funeral, Abt Volger, A Toccata of Galuppi's.

(d) Edward Gibbon, Description of Byzantium (Baldwin's Specimens of Prose Description. Henry Holt & Co).
Macaulay, Boswell's Life of Johnson.
Carlyle, Essay on Burns.
Charles Lamb, The South-Sea House (Baldwin's Specimens of Prose Description).
Ruskin, Geneva (Baldwin's Specimens of Prose Description).
Adam Smith, The Division of Labour (Lamont's Specimens of Exposition. Henry Holt & Co.)
Matthew Arnold, Wordsworth (Lamont's Specimens of Exposition).

II.

Development of Poetry and Poetic Forms:
(a) Development of Poetry from Chaucer to Shakespeare.
(b) Characteristics of Epic, Lyric and Dramatic Poetry.
(c) The Development of the Rhymed Couplet.
(d) The Development of the Ballad Form.
(e) The Development of Blank Verse.
(f) History of the Sonnet.

(The extra-mural student may consult Corson's Primer of English Verse and Gummere's Handbook of Poetics.)

III.

(a) Lectures on the History of the English Language.
(b) Specimens of Early English, Robert of Gloucester, (Morris & Skeat, Part II).
(c) For extra-mural students: O. F. Emerson's History of the English Language (Macmillan & Co.) chapters III, IV, V, VII, IX, X, XIII, XIV, XV, XVII, XVIII, XIX, XX, XXI, XXII.

Honours.

Preliminary.

1. Anglo-Saxon:—(Sweet's Anglo-Saxon Reader.)
Alfred's Preface to the *Cura Pastoralis.*
Alfred's Translation of Boethius.
Alfred's Translation of Beda (Account of the Poet Caedmon).
Aelfric's Assumption of St. John.
Aelfric's Life of King Oswald.

Charters (Eadgifu).
Extract from the Beowulf, lines 1-150.
The Battle of Maldon.

2. Skeat, Principles of English Etymology (Chaps. VII, X, XI, XVIII, XIX, XXI).

   For extra-mural students: O. F. Emerson's History of the English Language (Macmillan & Co.)

3. Ten Brink, Early English Literature, Book I.

   Morris & Skeat, Specimens of Early English, Extracts I and VII.

Intermediate.

Tennyson, Ulysses.

Byron, Bride of Abydos, Childe Harold, Canto III.

Cowper, Table Talk, Progress of Error, Task, Book I.

Wordsworth, The Prelude, Books I, II, III, IV; the following poems from "Lyrical Ballads": The Thorn, Simon Lee, The Last of the Flock, The Mad Mother, The Idiot Boy, Expostulation and Reply, The Tables Turned, The Complaint of a Forsaken Indian Woman, Lines Written near Tintern Abbey, Hart Leap Well, There Was a Boy, The Brothers, Lucy Gray, Ruth, Lines Written Upon a Tablet, The Two April Mornings, Nutting, Three years She Grew, The Old Cumberland Beggar, Michael; the poems published as "Memorials of a Tour in Scotland (1803)"; the poems "dedicated to National Independence and Liberty," Part I; Yew Trees, She was a Phantom of Delight, I Wandered Lonely as a Cloud, Song at the Feast of Brougham Castle, Laodamia, Dion, Peter Bell, Fidelity, Ode to Duty, Character of the Happy Warrior, Ode on Immortality, Excursion, Book I.

Keats, Ode on a Grecian Urn, Ode to a Nightingale, Isabella, Lamia.

Clough, The Bothie, Through a Glass Darkly, Ah! Yet Consider it Again, Qua Cursum Ventus.

Browning, *(a)* The Grammarian's Funeral, Andrea Del Sarto, Fra Lippo Lippi, Pictor Ignotus, The Bishop Orders His Tomb, Bishop Blougram, How it Strikes a Contemporary, Epistle of Karshish, Cleon; *(b)* Abt Volger, Rabbi Ben Ezra, A Toccata of Galuppi's, The Laboratory, The Glove, Dis Aliter Visum, Youth and Art, Waring, The Englishman in Italy, Old Pictures in Florence.

Arnold, On Translating Homer, Essays on Wordsworth and Byron, Essay on Poetry, (Essays in Criticism, Second Series), Culture and Anarchy, Chap. III.

Carlyle, Sartor Resartus.

Ruskin, On Geneva.

Gibbon's Rome, Chap. XXXV.

Adam Smith, Wealth of Nations, Bk. I, Chap. I.

J. H. Newman, Ancient Athens.

Final.

(Every candidate for Final Honours is subject to re-examination on the Intermediate texts.)

A.

Coleridge, Monody on Chatterton, France, An Ode, To William Wordsworth, Christabel, Dejection, An Ode, Hymn in the Vale of Chamouni.

Shelley, Alastor, Hymn of Pan, Adonais, Stanzas written near Naples, Hymn to Intellectual Beauty, Prometheus Unbound.

Ruskin, Modern Painters, Vol. III, Part IV, Chaps. IV to XIII, (of the False Ideal, of the True Ideal, of Finish, of the Pathetic Fallacy, of Classical Landscape); The Stones of Venice (On the Nature of Gothic).

Carlyle, Life and Letters of Cromwell, [Introduction, Letters CXXXIX and CXL, containing accounts of the Battle of Dunbar (Part VI); Letter CLXXXVII, The Dismissal of the Rump (Part VII).]

Scott, Old Mortality.

Emerson, The Method of Nature, Literary Ethics (Essays and Orations).

Arnold, Essays in Criticism (First Series), On the Study of Celtic Literature, Sections 4, 5, 6; Culture and Anarchy, Chaps II and III.

De Quincey, On Style (Historical and Critical Essays).

Browning, A Blot in the 'Scutcheon.

Clough, Religious Poems (except Fragments of the Mystery), Amours de Voyage.

In addition the candidate is expected to understand the value of the following works, both as art and as interpretations of life, and to answer questions of a general nature on their style and methods:

Scott, The Antiquary, Redgauntlet.
Thackeray, Vanity Fair.
Hawthorne, The House of the Seven Gables.
Carlyle, Life of John Sterling.
Emerson, The American Scholar.

B.

ROMANCE PHILOLOGY.

1. The poetry of Chaucer is the centre of studies in this course.
2. Origin and development of the octosyllabic couplet; origin and development of decasyllabic verse.
3. The Compleynte unto Pite, The Book of the Duchess, House of Fame, and the Legend of Dido (Legend of Good Women). Use Skeat's edition of Chaucer's Minor Poems and The Legend of Good Women.

4. Development of the sonnet-form and its use by Petrarch, Spenser, Shakespeare, Milton and Wordsworth.
5. The structure of the stanza, in Provencal and Italian poetry, and in Chaucer.

Consult Ten Brink, Chaucer, Studien zur Geschichte seiner Entwicklung. Chaucer's Sprache und Verskunst.

Sandras, Etude sur Chaucer.

Schipper, Altenglische Metrik (Englische Metrik, Erster Tehil).

Grober, Romanische philologie (Romanische Verslehre von E. Stengel).

Bartsch, Grundriss zur Geschichte der provenzalischen Literatur. Sections 1, 2, 3, 4, 5, 13, 14, 18, 21, 22, 23, 24, 25, 26, 27, 28, 30, 44, 48, 49, 50, 56.

Dante, De Vulgari Eloquio. Lib. 2.

For Extra-Mural Students.

Junior Class.

Subjects of study the same as those for intra-mural students. A fee of $3 is charged for tutorial assistance.

Senior Class.

Subjects of study the same as those for intra-mural students. A fee of $5 is charged for tutorial assistance.

HONOURS.

The subjects of study for Honours are the same as those for intra-mural students. A corresponding class will be formed for the purpose of assisting the extra-mural students in intermediate and final honours of this department. The course will consist of extracts from Professor Cappon's lectures, selected chiefly for the purpose of suggesting methods of analysis and criticism, and accompanied by papers containing hints for study and prescribing themes for exercises and essays. This course is voluntary, and a corresponding tutor has been appointed to communicate with extra-mural students who may wish to take it.

A special fee of ten dollars will be charged for this course.

N.B.—Candidates who do not take the full course described above must at least take the part relating to exercises and essays. For this part alone the fee will be five dollars.

ELOCUTION.

A course in Elocution lasting about two and a half months will be given during the firm term. The instructor will be the Rev. James Carruthers.

I. VOCAL TRAINING.

1. *Elements of Vocal Training.* Correct method of breathing. Training of the natural use of the voice. Faults of the voice, studied and corrected.

2. *Principles of Vocal Training.* Study of the vocal instruments and their natural use. Science of voice production.

II. PHONOLOGY.

1. *Vowels. Principles of vowel formation.* Distinction between vowels and articulations (Consonants).

2. *Articulation. Study of the elements of speech.* Development of the organs of articulation. Correction of common faults.

3. *Pronunciation. Training of the ear. Vocal quantity.*

VOCAL EXPRESSION.

1. *Elementary principles of Vocal expression.* Principles of inflection. Modulation. Emphasis. Verbal Grouping. Pausing. Expressive Reading.

IV. GESTURE.

1. *Elementary Gesture.* Nature and kinds of action.

2. *Manifestive Gesture.* Study and development of the action of each agent of the body and expression.

3. *Representative Expression.*

NOTE ON GESTURE.—The training outlined on Gesture is intended to dignify the study of it, by taking it out of the realm of studied artificiality, and by showing it to be a vital, organic part of the oral interpretation of literature and of public speaking. This training consists of Physical exercises for which special classes will be arranged.

NOTE—INDIVIDUAL DRILL.—Students wil be shown and helped personally in the particular work of the course. Two and a half hours each day will be devoted to individual drill.

V. ADVANCED WORK.

Principles of vocal expression. Assimilation and dramatic instinct. Development of the imagination. Rhythm and melody in speech. Tone-color and harmony. Problems in vocal expression. Study of elementary psychic action and the practice of short extracts as the means of studying and expressing thought and feeling. Extemporaneous speaking.

Students passing this course will be allowed 5 marks on either the Junior or Senior English examinations. A fee of $3 will be charged.

HISTORY.

PROFESSOR—Rev. George D. Ferguson, B.A.
TUTORS—Meta Newton, B.A.

JUNIOR CLASS.

Medieval History.

A.

Lectures on:

The Study of History, its methods and purposes.
The Fall of the Roman Empire and rise of new nationalities.
The Feudal System.
The Crusades.
The Struggle of the Towns in the Middle Ages for Independence.
The Growth of Monarchy, especially in France.
Europe at the time of the French Revolution.
The Congress of Vienna.

Text-book: Ferguson's Lectures on the History of the Middle Ages.

Books recommended to be read:

Gibbon's Decline and Fall of the Roman Empire.
Guizot's History of France.

SENIOR CLASS.

English Constitutional History.

Lectures on:

The development of representative government.
The British Constitution.
The Constitution of the United States.
The Canadian Constitution.

Students will also be examined on:

Bourinot's Constitution of Canada.

Books recommended to be read:

Freeman's Growth of the English Constitution.
Green's Larger History of the English People.
Bryce's American Commonwealth.

Fortnightly essays are required in each class.

For Extra-Mural Students.

JUNIOR CLASS.

Text-book: Ferguson's Lectures on the History of the Middle Ages.

Students are also required to make themselves familiar with other books mentioned below, and to write essays in connection with them, which are to be given in punctually at the time stated.

Essay:—The growth of the Royal Power in France. Oct. 20th.

Hallam's Middle Ages, Chap. II.
Guizot's History of Civilization in France.
Guizot's History of France.

Essay:—The Guelphs and Ghibellines.
Hallam's Europe during the Middle Ages. Ch. III.
Oscar Browning Guelph and Ghibellines.
Machiavelli's History of Florence.

Essay:—The formation of the Holy Roman Empire.
Bryce's Holy Roman Empire.
Gregorovins' History of the City of Rome in the Middle Ages. Vols.
Church's—The beginning of the Middle Ages. (Epoch Series.)

Essay:—The Influence of the Crusades on Europe. Jan 17th.
The Crusades (Story of the Nations Series).
Prescott's Robertson's Charles V, Introduction on the Progress of the History of Europe to the XVI century.
The Crusades, By. Rev. G. W. Cox, M.A. (Epoch Series).

Essay:—The Relations of Charles V with the Church. Feb. 1.
Creighton's History of the Papacy, Vols. V. and VI.
Froude's Lectures on the Council of Trent.
Robertson's Life of Charles V.

Essay:—The state of Europe just before the French Revolution. Feb. 18th.

The French Revolution and the First Empire, by S. R. Gardiner. (Epoch Series.)
De Tocqueville's Ancien Regime.
Sorel, Europe et La Revolution Francaise, Vol. I.

Essay:—The Congress of Vienna, March 12th.
Allison's History of Europe, first series, Chap. LXXVII.
Life and Correspondence of Prince Tallyrand, Part VIII.

SENIOR CLASS.

Text-books:—Hallam's Middle Ages, Chaps. VIII and IX.
Green's Larger History of the English People.

Essay:—The English Courts under the Anglo-Saxons, and the Curia Regis of the Normans. October 18th.

Hallam's Middle Ages, Chap. VIII.
Stubb's Constitutional History of England, Chap. XI.

Essay:—The Constitutional changes made in the reign of Henry II and Edward I. November 14th.

The Early Plantagenets, by Rev. W. Stubbs, D.D., Bishop of Chester. (Epoch Series.)

Stubb's Constitutional History, Chap. XII.

Essay:—The formation of the House of Commons and the growth of Parliament. Dec. 13th.

Hallam's Middle Ages, Chap. VIII, and Green's Larger History of the English People, Vol. 2nd.

Barnett Smith's History of the English Parliament.

Essay:—Cardinal Wolsey's Foreign Policy. January 11th.

Froude's History of England, Vols. II and III.

Cardinal Wolsey. by Prof. M. Creighton—Bishop of London —(English Statesmen Series).

Essay:—Oliver Cromwell as a Statesman. February 12th.

Carlyle's Letters and Speeches of Oliver Cromwell.

Oliver Cromwell, by Fred. Harrison. (English Statesmen Series).

Cromwell's Place in History, by S. R. Gardiner.

Oliver Cromwell, by John Morley.

Essay:—A comparison of the American Congress with the British Parliament. March 12th.

Bryce's American Commonwealth, Part I.

Bagehot's English Constitution.

HONOURS.

Preliminary.

LECTURES ON THE GENERAL PRINCIPLES OF GOVERNMENT.

Students will be examined on:

Stubb's Constitutional History of England, vols. I, II, and III, and Select Charters.

Guizot's Representative Government.

Rousseau's Social Contract.

Mill's Representative Government.

Books recommended:

Machiavelli's Prince.

Dicey's, The Law and the Constitution.

Hearn's Government of England.

Kemble's Anglo-Saxons in England.

Gneist's English Constitution.

Final.

Lectures:

(a) A comparison of the British Constitution with other constitutions, especially with that of the United States. *(b)* On the Government of Colonies. *(c)* On the Foreign Policy of Britain. *(d)* On Cabinet Government and its Relation to the other powers in the state.

Students will also be examined on:

Hallam's Constitutional History of England.

May's Constitutional History.

Bryce's American Commonwealth.

Bagehot's English Constitution.

Houston's Constitutional Documents of Canada.

Books recommended:

Todd's Parliamentary Government in England.

Todd's Parliamentary Government in the British Colonies.

De Tocqueville's Democracy in America.

Both Intra and Extra-mural students in Honours are required to write the following essays, and in writing them to show some acquaintance with original authorities.

Preliminary.

1. *Essay*:—The social and political positions of the Boroughs in England, previous to the 14th century.
   Maitland's Township and Borough.
   Merewether and Stephen's History of Boroughs.
2. *Essay*:—Domesday Book. Dec. 9th.
   Domesday Book, with Ellis' Introduction.
   Maitland's Domesday and Beyond.
   Round's Feudal England, Part I.
3. *Essay*:—The English Manor and Manorial Courts. Feb. 1st.
   Vinogradoff's Villainage in England.
   Maitland's Select Pleas in Manorial Courts, Selden Society, volume II.
4. *Essay*:—Development of English Law down to the Tudors. March 3rd.
   Pollock and Maitland's History of English Law.
   Sir James Stephen's Introduction to Commentaries on the Laws of England.
   Phillips' Englische Reichs and Rechtsgeschichte, including Glanvils Tractatus de Legibus regni Angliæ.
   Stubb's Constitutional History.

Final.

Students in Final Honours are required to write a Thesis on some subject immediately connected with the Honour course. They are allowed to choose their subjects, which, however, must be submitted to the Professor for his approval. The writer of the Thesis must show that he has consulted original authorities. The subjects selected should be submitted to the Professor's approval as early as possible. The thesis is to be given in by March 1st.

Besides the Essays mentioned, frequent exercises will be prescribed in both Honour and Pass classes, based on the textbooks, which the Tutor will carefully examine and submit to the Professor, and notes and suggestions will be offered which will afford assistance to the student. A fee of $3.00 for the Junior Class, and $5.00 for the Senior and Honour Classes, payable with the Registration fee not later than the 16th October, is required.

The books mentioned in connection with the prescribed essays are suggested as easily procured, and at little cost, but others of equal value may be substituted.

MENTAL AND MORAL PHILOSOPHY.

PROFESSOR OF MORAL PHILOSOPHY—John Watson, M.A., LL.D.
PROFESSOR OF MENTAL PHILOSOPHY—S. W. Dyde, D.Sc., LL.D.
FELLOW IN MORAL PHILOSOPHY—J. M. MacEachran, M.A.
FELLOW IN MENTAL PHILOSOPHY—R. A. Wilson, M.A.

MENTAL PHILOSOPHY—Professor Dyde.

This class is divided into two parts, *(a)* The study of Systematic Philosophy, and *(b)* The study of a special period of Philosophy.

(a) Lectures on the method and aim of Philosophy. Outline of Psychology.

Books recommended to be read:
Mackenzie's Outline of Metaphysics and Manual of Ethics.
Stout's Manual of Psychology.
Palmer's, the Field of Ethics.

(b) The History of Greek Reflection. Study of Plato's Theætetus and Aristotle's Ethics (Peters' or Welldon's translation).

Books recommended to be read:
Plato, Republic; Wallace, Epicureanism.
Attendance and exercises are compulsory.

MORAL PHILOSOPHY—Professor Watson.

Text-book: Watson's *Outline of Philosophy with Notes Historical and Critical.* Supplementary Lectures, Tuesday and Thursday. Attendance and exercises are compulsory.

NOTE.—Candidates in Mental and Moral Philosophy, who do not pass the April or supplemental examination, must in the session in which they desire again to try the examination, write the essays prescribed for extra-mural students, hand them in to the Tutor for examination and correction, and pay to the Registrar the tutorial fee of $5.

SPECIAL VOLUNTARY CLASS, 1904-5—Professor Dyde.

A special course of lectures on Aesthetics will be given one hour a week, free and open to all students in any of the faculties who present a class card. The hour will be arranged for and announced at the beginning of the session.

For Extra-Mural Students.

MENTAL PHILOSOPHY.

Students are expected to show familiarity with the substance of the books mentioned below. They are recommended to take up the work in the following order:

1. Schwegler, History of Philosophy, XI-XV.
   Plato, Theætetus (Dyde's Translation).
   Plato, Republic, Bks. I, II.
   Essay for 15th Oct.:—The relation of Plato to the Sophists.
2. Plato, Republic, Bks. III, VII.
   Schwegler, History of Philosophy, XIV.
   **Essay* for 1st Nov.:—Plato's Theory of Education.
3. Aristotle, Nichomachean Ethics (Peter's Translation).
   Schwegler, History of Philosophy, XVI.
   Essay for 21st Dec.:—The relation of Aristotle's Ethics to his Psychology.
4. Schwegler, History of Philosophy, XVII-XXI.
   Capes, Stoicism (New York: Pott, Young & Co.)
   Wallace, Epicureanism.
   Essay for 1st Feb.:—Stoicism and Epicureanism.
5. Schwegler, History of Philosophy, XXII-XXVI.†
   Essay for 15th Feb.:—The Principles of the Cartesian Philosophy.
6. Schwegler, History of Philosophy, XXVII-XXXV.
   Fraser, Selections from Berkeley.
   Fraser, Berkeley (Blackwod's Philosophical Classics).
   Essay for 14th March.:—The development of the Philosophy of Berkeley. .

For the examination, correction and return of the essays, a Tutor's fee of $3 is charged. The essays are to be sent to the Tutor and the fee to the Registrar.

MORAL PHILOSOPHY—Professor Watson.

Students will be examined upon Watson's "Outline of Philosophy, with Supplementary Notes, Historical and Critical," and "Hedonistic Theories." Weekly exercises will be prescribed, covering the whole of this work. These are compulsory and they will be examined and corrected by the Tutor, under supervision of the Professor. To compensate the Tutor, a special fee of $5 is charged, which must be sent to the Registrar at the time of Registration. The first exercise must be sent in by the middle of October.

HONOURS.

Preliminary—Professor Watson.

Critical Study of the Philosophy of Kant:

Text-books: Watson's Selections from Kant, and Caird's Critical Account of the Philosophy of Kant.

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*Nettleship's article on "Plato's Theory of Education" in Hellenica (Rivington's) is very valuable, but a knowledge of it will not be required.

†See also Caird's article "Cartesianism," in the Encyclopædia Britannica.

Final.

Students desiring to write for Honours in Latin, Greek, French, German, English, History or Political Science, may complete their Honour Course by taking any one of the following departments:

A.—FIRST DEPARTMENT.

Critical study of the Philosophy of Kant. (See Preliminary Honour Class). Professor Watson.

Special Classes for 1904-1905.

Critical study of Hegel's Wissenschaft der Logik and Green's Prolegomena to Ethics. Professor Watson.

Lectures on the Principles of Psychology. Professor Dyde.

Essays for the Class of English Philosophy:

15th Nov.: Relation of Locke to Hobbes.
20th Dec.: Green's Analysis of Locke. (Green's Introduction to Hume.)
7th Dec.: Spencer's Unknowable. (Spencer's First Principles. Caird's Evolution of Religion, vol. I.)
14th March: Bradley's Interpretation of the Absolute. (Bradley's Appearance and Reality).

NOTE.—As a substitute for the essays required in this and the other departments a more comprehensive essay, not less than 40 pages of foolscap in length, may be offered.

Candidates will be examined on the following works:

Kant, as in Preliminary Honour Class.
Bacon, Novum Organum.
Hobbes, Leviathan.
Locke, Essay on the Human Understanding.
Hume, A Treatise on Human Nature.
Mill's Logic, Examination of Hamilton and Utilitarianism.
Spencer's First Principles, Data of Ethics.
Green's Prolegomena to Ethics.

B.—SECOND DEPARTMENT.

Critical Study of the Philosophy of Kant. (See Preliminary Honour Class.) Professor Watson.

Special Classes for 1904-5.

Lectures on the Philosophy of Aristotle. Prof. Watson.

Greek Thought with special reference to Plato's Theætetus, Sophist and Laws. Prof. Dyde.

Essays for Class in Plato:

15th Nov.: The Socrates of Plato and the Socrates of Xenophon. (Plato's Dialogues, Xenophon's Memorabilia).

20th Dec.: The Sophistic Conception of the State. (Plato's Protagoras and Republic II, Aristotle's Politics I.)
7th Feb.: Plato's Proof of the Existence of God. Republic II, III, Laws X-XII.)
14th March: Aristotle's Definition of Tragedy. (Aristotle's Poetics, Bosanquet's History of Aesthetic.)

Candidates will be examined on the following works:
Kant, as in Preliminary Honour Class.
Plato, Theætetus, Republic.
Aristotle, Metaphysics.
Green's Prolegomena to Ethics.

Books recommended to be read:
Campbell, Translation of Aeschylus; Whitelaw, Translation of Sophocles; Way, Translation of Euripides; Butcher, Aristotle's Poetics; Bosanquet, History of Aesthetic; Pater, Plato and Platonism; Wallace, Epicureanism; Maier, Die Syllogistik des Aristotles.

C.—THIRD DEPARTMENT.

Critical Study of the Philosophy of Kant. (See Preliminary Honour Class.) Professor Watson.

Special Classes for 1904-5.

Critical Study of Hegel's Wissenschaft der Logik and Green's Prolegomena to Ethics. Professor Watson.

Examination of Hegel's Philosophy of Right. (Dyde's Translation.) Professor Dyde.

Essays for Class in Hegel's Phil. of Right:
15th Nov.: Hegel's Theory of Crime and Punishment. (Phil. of Right, pp. 90-103; Bosanquet, chap. VIII.)
20th Dec.: Time and Dialectic. (Phil. of Right, sections 3, 341-360, etc.)
7th Feb.: The Nature of Evil. (Phil. of Right, section 140.)
14th March: Religion and the State. (Phil. of Right, section 270.)

Candidates will be examined on the following works:
Kant, as in Preliminary Honour Class.
Descartes, Discourse on Methods and Meditation.
Leibnitz, Monadology.
Spinoza, Ethica, De Intellectus Emendatione.
Hegel, Wissenschaft der Logik, Philosophy of Religion, Philosophy of Right.
Green's Prolegomena to Ethics.

Books recommended to be read:
Caird, Hegel; Wallace, Hegel's Philosophy of Mind, Prolegomena to the Study of Hegel's Philosophy.

MENTAL AND MORAL PHILOSOPHY.

Students desiring to write for Honours in Mental and Moral Philosophy may take A and B, A and C, or B and C.

POLITICAL SCIENCE.

PROFESSOR—Adam Shortt, M.A.
TUTOR—J. A. Donnell, M.A.

ECONOMICS.

The lectures will include a discussion of the general principles of Political Economy.

Text-book for general reference: Gide's Principles of Political Economy.

POLITICS.

The lectures will include a critical examination of the leading theories of the State, and a discussion of the nature of Social and Political Relations.

In both classes essays will be required.

Economics and Politics may be taken during the same session.

For Extra-Mural Students.

ECONOMICS.

Candidates will be examined on the following books:
Marshall's Economics of Industry.
Jevons' Money and Mechanism of Exchange.
Price's English Commerce and Industry.

Essays during Session 1903-4.

The character of the Mercantile system; Price, chaps. 7 and 8.

The growth of free industry. Marshall, Book I; Price, chap. X.

The balance of supply and demand; Marshall, Book V.

Ttade Unions and their influence. Marshall, Book VI; Price, chap. 9, sec. D.

Credit documents and their function in modern trade; Jevons.

Nature of modern industrial organization. Marshall, Book IV; Price, chap. 9.

The place of capital in production. Marshall, Book II; chap. 4; Book VI, chaps. 6, 7, 8.

A fee of $3 is required.

POLITICS.

Candidates will be examined on the following books:

Aristotle's Politics, Weldon's Translation, Bks. I, III, IV, V.
Rousseau's Social Contract.
Leroy Beaulieu, The Modern State.

Essays during Session 1903-4.

A comparison of the views of Aristotle and Rousseau as to the origin of the state. Politics, Book I; Social Contract, Book I.

Aristotle's conception of the good citizen. Politics, Book III.

A general examination of Aristotle's views on education. Politics, Books IV, V.

A general examination of Rousseau's view of the state.

The relations of individuals to society. Leroy Beaulieu; Rousseau.

Comparison of the ancient and modern state.

The function of the state. Leroy Beaulieu.

A fee of $3.00 is required.

HONOURS.

Preliminary.

This class will meet for the discussion of Economic, Social and Political Principles, and for the critical reading of portions of the works prescribed for Honours.

A course of lectures will be given on Canadian Economic and Political History.

Candidates will be examined on the following books:

ECONOMICS.

Smith's Wealth of Nations.
Mill's Principles of Political Economy.
Nicholson's Principles of Economics, vol. I.
Ingram's History of Political Economy.

POLITICS.

Aristotle's Politics.
Mill's Representative Government.
Maine's Ancient Law.
Carlyle's Sartor Resartus and Past and Present.
Wilson's, The State; Historical and Practical Politics.

Final.

This class will meet for the further discussion of Economic, Social and Political Principles.

Candidates must show familiarity with the substance of the following books:

ECONOMICS.

Cunningham's Western Civilization in its Economic Aspects.
Wells' Recent Economic Changes.
Scott's Money and Banking.
Seligman's Essays in Taxation.
Brentano's, The Relation of Labour to the Laws of to-day.

POLITICS.

Bluntschli's Theory of the State.
Holland's Elements of Jurisprudence.
Arnold's Culture and Anarchy.
Rae's Contemporary Socialism.

An essay embodying independent work in some section of the Honour Course will be required from every candidate for Honours.

MATHEMATICS.

PROFESSOR—N. F. Dupuis, M.A., F.R.S.C.

ASSISTANTS—J. Matheson, M.A., F. R. Sharpe, B.A.

TUTOR—L. A. H. Warren, M.A.

JUNIOR CLASS.

The theory and practice of *Algebra* to the Binomial theorem inclusive. Dupuis' Algebra—the first thirteen chapters, omitting chapter XI.

Geometry of the point line and circle in the plane. Parts I and II, and selections from Part III, Dupuis' Plane Geometry.

Besides numerous class-exercises, periodical written exercises will be required.

SENIOR CLASS.

Algebra—Dupuis' Algebra, from the twelfth chapter to the end.

Geometry—Part III of Dupuis' Plane Geometry, and the first 131 pages of Dupuis' Solid Geometry.

Trigonometry—Preceding De Moivre's theorem.

Besides numerous class-exercises, periodical written exercises will be required.

HONOURS.

Candidates who matriculate with Honours in Mathematics are not required, in their subsequent Honour Course, to take either the Junior or the Senior Class, but they are advised to read the Geometry of the Junior Class.

Candidates who did not matriculate with Honours must take the Junior Class as preparatory to their Honour work, but they need not take the Senior Class inasmuch as the work of this class is covered in the first group of Honour subjects.

Group I.

1. *Synthetic Modern Geometry.* Dupuis' Geometry, parts III, IV, V.
2. *(a) Algebra*—Dupuis' Algebra, from chapter XI to the end. Reference to Hall and Knight's Higher Algebra, the first twenty-seven chapters.

   (b) Plane Trigonometry. Preceding De Moivre's theorem. with various problems and applications. Hobson and Jessop's Plane Trigonometry.
3. Elementary Co-ordinate Geometry, through the Conics. Lectures, supplemented by examples from Loney's Coordinate Geometry and other sources.

Group II.

4. *Synthetic Solid Geometry.*—Dupuis' Solid Geometry.
5. *(a) Algebra.*—Hall and Knight's Higher Algebra from chapter XXVII to the end.

   (b) Trigonometry, following De Moivre's theorem.
6. *Elementary, Differential and Integral Calculus.*—Reference to Edwards, Taylor, Gibson, and Williamson.

Groups III and IV.

A

7. *Analytic Solid Geometry.*—Aldis' Geometry, supplemented by lectures and examples, with references to Aldis, Smith, Salmon, &c.,

8. *(a) Higher Differential Calculus.*—Edwards.
   (b) Integral Calculus.—Williamson and Edwards.

9. *(a) Finite Differences.*—Given by lectures and syllabus.
   (b) Differential Equations.—Johnson.

B

10. Spheric Trigonometry, Geodesy and Astronomy. Lectures and examples, with references to Barlow and Bryan's Mathematical Astronomy.

11. *(a)* Determinants and Theory of Equations. Consult Weld's Determinants.

12. Higher Conics and Curves. Salmon.

Candidates who take group I as a part of their Pass Course, and who make a minimum of 33 per cent. upon each subject and 50 per cent. upon the whole group, may substitute this group for Senior Mathematics, together with any one of the optional subjects mentioned in courses I and II, on pages 51 and 52.

Candidates for Honours must make a minimum of 40 per cent. upon each subject of group I, and 60 per cent. upon the whole group, at one examination, after which no further examination on this group will be required.

Candidates for Honours must make at least 50 per cent. upon the subjects numbered 4, 6 and 10, but honour standing will be determined by the examinations on the subjects numbered 5, 7, 8, 9, 11, and 12.

The subjects of Groups II, III and IV must be taken in not more than two examinations, and at any examination a candidate may offer any subject upon which he has failed at a previous examination. But 5, 7, 8, 9, 11 and 12 must be taken at the final examination.

A and B of Group III will be taken up in alternate years. B in 1904-5.

Candidates are recommended to follow the order of subjects as indicated above, as nearly as may be practicable.

Extra-mural students must pay for tutorial assistance—$3.00 for each Pass Class or $5.00 for any group of the Honour Classes.

ARTS TIME-TABLE FOR CLASSES IN MATHEMATICS, 1904.5.

	X.	XI.	III.	IV.
Monday,		Syn. Solid Geometry *n*	Junior. *n*	Syn. Modern Geometry. *s*
Tuesday,	Senior. *s*	Algebra and Trig. of Gr. II. *s*		Algebra and Trig. of Group I. *s*
Wednesday,	Determinants. Theory of Equations. *s*	Spheric, Trigonom'y., Geodosy and Astronomy. *n*	Junior. *n*	
Thursday,	Senior *s*	Calculus of Group II. *s*	El. Co-ord Geometry and Conics. Group I. *s*	
Friday,	Higher Conics and Curves. *n*		Junior. *n*	

n means that the class meets in the north room, and ***s***, that it meets in the south room.

PHYSICS.

PROFESSOR—D. H. Marshall, M.A., F.R.S.E.
ASSOCIATE PROFESSOR—N. R. Carmichael, M.A.
DEMONSTRATOR—W. C. Baker, M.A.

JUNIOR AND SENIOR CLASSES.

Lectures and experiments are given in the following subjects:

Properties of Matter.

Extension—Inertia — Mass — Density — Gravitation—Specific weight—Weight of Gases—Molecular forces—Energy.

Dynamics.

Kinematics—Statics of solids and fluids—Kinetics of solids and fluids.

Heat.

Thermometry—Calorimetry (Specific and Latent Heats)—Hygrometry—Transference of Heat (Conduction and Radiation)—Dynamical theory of heat.

Magnetism.

With special reference to terrestrial magnetism.

Electricity.

Frictional Electricity—Voltaic Electricity—Electro-Magnetism — Magneto-Electricity — Thermo-Electricity — Electro-Dynamics.

Light.

General Laws of Radiant Energy—Geometrical Optics—Physical Optics—Construction and use of Optical Instruments—Spectrum Analysis.

Sound.

Propagation of Waves—Physical Theory of Music.

Algebra, Geometry and Trigonometry are applied to the solution of problems, and weekly exercises are given throughout the session.

Students are recommended to do experimental work in the Laboratory in connection with each class.

In the Junior Class the following subjects are principally studied:—Properties of matter, dynamics, heat, magnetism, and frictional electricity. In the Senior:—Dynamics, voltaic electricity, electro-magnetism, magneto-electricity, thermo-electricity, light, and sound.

Text-books:—Marshall's Introduction to the Science of Dynamics, new edition, published by R. Uglow & Co., Kingston. Price $1.50; D. E. Jones' Elementary Lessons in Heat, Light and

Sound (Macmillan & Co.), and Electricity Treated Experimentally by Linnaeus Cumming (Rivingtons, London).

The following books are recommended for consultation in connection with the lectures:

Gage's Principles of Physics
Tait's Properties of Matter.
Balfour Stewart's Heat.
Sylvanus Thompson's Electricity and Magnetism.
Taylor's Sound and Music.
Deschanel's Natural Philosophy or Ganot's Physics.
Clerk Maxwell's Matter and Motion.
Chamber's Mathematical Tables.
Ames' Theory of Physics.

Note.—Copies of all these works are kept in the Physics Library for consultation by the students during the session.

The classes of Junior and Senior Mathematics should be taken if possible before the corresponding Physics classes, and students who are allowed to attend the Senior Class without first taking the Junior Class are strongly recommended to take the Dynamics of the Junior Class.

HONOURS.

Preliminary.

Students should take Group I of Honour Mathematics before entering this class. They are also required to have taken the experimental work of both Junior and Senior Classes.

The work will be a continuation of that done in the Junior and Senior, with applications of higher mathematics, and selected experiments in the Laboratory. Marshall's Dynamics, Part III, will be used as a text-book (to be obtained at the College, price 50c.) Also two or more of the folowing:

Hick's Elementary Dynamics of Particles and Solids.
Besant's Elementary Hydrostatics.
Frost's Newton's Principia.
Clerk Maxwell's Theory of Heat.
Tait's Thermodynamics.
J. J. Thomson's Elements of Electricity and Magnetism.
Aldis' Geometrical Optics.
Lloyd's Wave Theory of Light.

For session 1904-5 the following will be read:

Besant's Hydrostatics—Clerk Maxwell's Theory of Heat—Hick's Dynamics—J. J. Thomson's Electricity and Magnetism.

Final.

1. *Preliminary and Final Honour Experimental Physics.*

A
2. *Analytical Statics.*
   Todhunter's or Minchin's Analytical Statics.
3. *Electricity and Magnetism.*

B
4. *Dynamics of a Particle and of a Rigid Body.*
   Tait and Steele's Dynamics of a Particle.
   Pirie's Rigid Dynamics.
5. *Physical Optics.*
6. *Heat.*

Groups A and B are lectured upon in alternate years, group B in 1904-5.

EXPERIMENTAL PHYSICS.

Pass Classes.

The Laboratory courses in connection with the Junior and Senior classes consist of elementary experiments in general Physics as described in Watson's Elementary Practical Physics, with other simple measurements.

Preliminary Honours.

Honour students in Physics are expected to spend a large portion of their time in the Laboratory. The work of this class consists of a selected course of advanced experiments in Mechanics, Heat, Light, Sound, Electricity and Magnetism.

Final Honours.

A small number of elaborate measurements intended to acquaint the student with some of the methods and instruments used in modern research.

Extra-mural students pay for tutorial assistance: $3 for the Junior or Senior Class, and $5 for any of the Honour Classes.

BOTANY.

PROFESSOR—Rev. James Fowler, M.A.
TUTOR—J. W. Hagan.

Pass Class.

Class meets at 10 a.m. Lectures embrace the following subjects:

General morphology of the plant body, segmentation, symmetry, arrangement of lateral members of the common axis, branch systems.

Special morphology of the members, (1) Roots, different form, duration, parasites; (2) Stems, their forms, climbing stems, &c.; (3) Leaf, phyllotaxis, venation, vernation, forms; (4) Trichomes, &c.; (5) Flowers; (6) Fruits; (7) Arrangements for cross-fertilization, close-fertilization.

Anatomy of plants (Histology), cell, cell-wall, protoplasm, Chlorophyll, starch, etc.; formation of new cells, tissues, system of tissues.

Study of specimens belonging to leading orders.

Text-Books:—Spotton's Structural Botany and Wild Plants of Canada, Coulter's Plant Relations.

HONOURS.

Preliminary.

The class meets daily during the session at 11 a.m.

Careful study of Phænogamous plants of Canada, embracing about three hundred species, representing all available orders.

The subjects of Morphology and Histology are carefully studied with the aid of models, diagrams and microscopic specimens.

Physiology, elementary constituents, plant-food, absorption, metabolism, respiration, transpiration, movements of water and gases, chemical processes, root pressure, bleeding, growth, effects of moisture, temperature, light, &c.

Laboratory work daily, consisting of study of specimens.

Essays are required on prescribed subjects.

Books for study and laboratory work:

Gray's Structural Botany.
Bessey's Botany.
Gray's Manual.
Atkinson's Elementary Botany.
Barnes' Plant Life.
Coulter's Plant Structures.
Clark's Practical Methods in ~~Botany~~. microscopy.

Students are required to bring at least two hundred specimens of plants for their own use.

Final.

This class meets daily during the session at 11 a.m.

The first half of the session is devoted to the more extended and minute study of (1) Morphology, and (2) Histology. The subject of Physiology is taken up during the second half.

Practical work in the laboratory consists in the careful examination of (1) Algae; (2) Fungi and Lichenes; (3) Bryophyta; (4) Pteridophyta; (5) Gymnospermae; (6) Gramineæ; (7) Cyperaceæ.

Essays are required on prescribed subjects.

Vines' "A Student's Text-book of Botany" must be read for examination.

Books for laboratory work and reference:

Gray's Manual.
Sach's Text-book of Botany.
Darwin and Acton's Physiology of Plants.
Lesquereux and James' mosses of N. America.
Tuckerman's Lichens.
Strasburger and Hillhouse's Practical Botany.
Arthur, Barnes and Coulter's Plant Dissection.
Kerner's Natural History of Plants.

Honour examinations are held at the University only.

ANIMAL BIOLOGY.

Professor—A. P. Knight, M.A., M.D.

Tutor—A. R. B. Williamson, M.A., M.D.

Students in medicine are required to take the pass class.

Students in arts who intend subsequently to study medicine are advised to take the pass and honour classes, and thus complete their physiology and histology during their undergraduate course. Besides the special course for B.A., M.D., the honour course in science C, number 2, (with Animal Biology) page 55 or the specialists' course in science, page 58, is suitable for this purpose. The course in Sanitary Engineering for the degree of B.Sc. in practical science, is also suitable for medical students.

PASS CLASS.

Lectures or demonstrations will be given tri-weekly at 9 a.m.

The lectures treat of protoplasm, cells, cell division, reproduction, early stages of development, tissues, organs, differences between animals and plants, general view of invertebrata and of vertebrata, organic evolution.

The laboratory work consists of such dissections and demonstrations as will elucidate the subject of the lectures. The lectures are illustrated by diagrams, charts, and lantern transparencies. Text-book, General Zoology by C. W. Dodge (American Book Co.)

The senior leaving examination in biology of the Education Department is accepted in lieu of attendance and examination in this class.

Extra-Mural Students.

Extra-mural students and students who do not attend the class lectures and demonstrations are required to do the practical work outlined for Honour Matriculation in Zoology. They will be examined on Professor Ramsay Wright's *High School Zoology.*

HONOURS.

Candidates who have not matriculated with honours in biology and who intend to take an honour course in the subject must first take the pass class.

The course in comparative and practical anatomy extends over two years, and the work of each year is read in class every alternate session.

Preliminary honours are awarded on the honour papers of the first session in honours.

Final honours are awarded on the honour papers of both sessions taken together.

The lectures and demonstrations in "physiology" and "histology" are attended simultaneously by students in medicine and arts. The honour work in physiology for the second year lasts during the whole session.

Graduation in honours in the department of biology lessens, by one year, the length of the course required by the Medical Council of Ontario.

SESSION 1904-1905, 12 M. to 1 P.M.

Biology of Invertebrata.

Examination of typical specimens of the different classes.
Histology and Embryology.
Physiology.
Daily laboratory work.
Dissection of all the forms in Huxley & Martin's text-book, (last edition), and in addition, a grasshopper, star fish, or sea-urchin, squid, sponge, and hydroid.

SESSION 1905-1906, 12 M. to 1 P.M.

Biology of Vertebrata.

Study of Types of the different divisions of Vertebrata.
Histology and Embryology.
Physiology.
Daily laboratory work.
Dissections of balanoglossus, a tunicate, amphioxus, a fish, frog, bird and mammal.

Books for study and laboratory work:

Text-book of Physiology, 2 Vols., edited by E. A. Schafer, LL.D.
Halliburton's Hand-book of Physiology, 18th edition.
Claus and Sedgwick's or J. Arthur Thompson's Zoology.
Huxley and Martin's Practical Biology.
Parker's Zootomy.
Brook's Hand-book of Invertebrate Zoology.
Weidersheim's Elements of Comparative Anatomy.
Foster & Langley's Histology, or Dr. Stirling's.
Balfour & Foster's Elements of Embryology.
Darwin's Origin of Species.

The Honour examinations in this department are held at the University only.

CHEMISTRY.

PROFESSOR—William L. Goodwin, D.Sc., Edin.

LECTURERS—John Waddell, B.A., D.Sc., Ph.D., and C. W. Dickson, M.A., Ph.D.

DEMONSTRATORS—Isaac Wood, M.A., M.D.; M. B. Baker, B.A., B.Sc.; F. H. McDougall, M.A.

JUNIOR CLASS.

Lectures: Monday and Tuesday at 11 a.m.

Laboratory: Wednesday at 11 a.m.

Chemical Species—Crystals and Crystallization—Chemical Change—Laws of Combination—Combining Weights—Relations of Heat to Chemical Changes—Notation—Equations—Nomenclature—Volume Relations of Gases in Chemical Change—Volume Formulae—Molecular Weights—The Atomic Theory—Atomic Weights—Descriptive Chemistry of the Commoner Elements and their Compounds—The Periodic Law—Properties of Solutions—Electrolysis—Spectrum Analysis—Chemical Calculations.
Spectrum Analysis—Chemical Calculations.

Books: Shenstone's Inorganic Chemistry (Edward Arnold, London); Waddell's Arithmetic of Chemistry (The Macmillan Company, N.Y.), chapters I-V.

Beginners are advised to read Walker's Elementary Inorganic Chemistry (G. Bell & Sons, London).

SENIOR CLASS.

1. Organic Chemistry—Thursday at 11 a.m.
2. Chemical Laws and Theories—Friday at 11 a.m.
3. Special Chemistry of the Metals, their occurrence in nature, reduction and uses—Tuesday at 3 p.m.

(2) with either (1) or (3) is required.

Books: Van Deventer's Physical Chemistry (J. Wiley & Sons).
Cohen's Theoretical Organic Chemistry (Macmillan & Co.)
Richter's Inorganic Chemistry, Chapters on Metals (P. Blakiston's Son & Co.)
Waddell's Arithmetic of Chemistry, Chap. VI to the end.

Syllabus of Organic Chemistry.

Calculation of Empirical formulae from percentage composition—Determination of molecular weight from vapour density—Isomerism—Constitution of organic compounds—Rational formulae—Homologous series—*Radicles*—Classification—Optically active compounds—*Paraffins,* methods of preparation, properties, nomenclature and isomerism—*Olefines,* methods of preparation and properties—*Acetylene Series—Monatomic saturated alcohols,* properties, methods of preparation and isomerism—Methyl and ethyl alcohols—Ethers, simple and mixed, methods of preparation and properties—Ethyl ether—*Thio-alcohols* and *thio-ethers—Compound ethers* or *esters,* preparation and properties—*Esters of nitrous acid—Nitro Paraffins—Sulphonic acids—Cyanides and isocyanides—Amines — Hydrazines — Phosphines—Arsines—Metallic Compounds of the alcohol radicles—Aldehydes*—Formic aldehyde—Acetic aldehyde—Chloral and chloral hydrate—*Ketones*—Acetone—*Fatty acids*—Formic acid—Acetic acid—Fats and oils—Soaps—*Hydroxy acids (oxyacids)*—Lactic acid—*Chlorides of the acid radicles—Acid anhydrides—Amides*—Glycol—Glycerine — Nitroglycerine—Oxalic acid—Tartaric acid—Citric acid—*Cyanogen compounds*—Cyanogen—Hydrocyanic acid—Potassium cyanide—*Double Cyanides*—Potassium ferrocyanide—Potassium ferricyanide—Halogen compounds of cyanogen—Cyanic acid—Potassium cyanate—Ammonium cyanate—Ethyl isocyanate—Potassium thiocyanate—Ammonium thiocyanate—Ethyl thiocyanate—Allyl isothiocyanate—Urea—Carbamic acid—Ammonium carbamate—Thiocarbonic acids—Thiocarbamide—*Carbohydrates—The grape sugar group—The cane sugar group—The cellulose group*—Grape sugar—Fruit sugar—Cane sugar—Milk sugar—Malt sugar—Cellulose—Starch—Gums—Dextrine—*Benzene Derivatives*—Differences between aromatic and fatty hydrocarbons—Isomeric relations—*Ortho, meta and para-derivatives*—Constitution of benzene—Occurrence of benzene derivatives—*Modes of formation and properties of benzene hydrocarbons*—Benzene—Toluene—Xylenes—Mesitylene—*Halogen substitution products — Nitro-substitution products — Amido-derivatives — Primary monamines*—Aniline — Acetanilide — *Diazo-compounds — Azo-compounds—Hydrazines — Phenols—Monatomic phenols*—Carbolic acid—*Cresols*—Hydroquinone — Pyrogallol—Quinone—*Aromatic Alcohols—Aromatic acids*—Benzoic acid—*Phthalic acids*—Petroleum—Wood tar—Coal tar.

The subjects in italics are to be studied not too much in detail, but with a view of observing the relations to each other of the classes of compounds and the commoner general methods of formation.

Students intending to proceed to Honours in Chemistry may begin Qualitative Analysis in the year in which they take Senior Chemistry.

HONOURS

Preliminary.

(May be taken as a Pass Class.)

1. Organic Chemistry.

   The detailed study of selected groups of carbon compounds and their preparation in the laboratory. (1. *Organic Chemistry* of the Senior Class must be taken along with this, if not already taken. Nos. 1, 2 and 3 of the Senior Class are required for Honours.)

   Wednesday, 2 to 5 p.m.

2. Industrial Chemistry or *Physiological and Pathological Chemistry Monday and Thursday at 3 p.m.
3. Crystallography (Elementary). See Mineralogy (First Term).
4. Qualitative Analysis and Blowpiping.
5. Qualitative Analysis of Minerals, &c., or *Urinalysis, &c. (See page 101.

Students are required to complete the first 25 introductory exercises in Noyes' Qualitative Analysis, and to hand in their note-books for inspection. This must be done before beginning the analysis of unknown substances.

Books:

Cohen's Practical Organic Chemistry for advanced students (Macmillan & Co., London).
Simon's Physiological Chemistry (Lea Brothers & Co., Philadelphia).
Williams' Crystallography (Henry Holt & Co.)
Arthur S. Noyes' Qualitative Analysis (The Macmillan Co., N.Y.)
Thorp's Industrial Chemistry (The Macmillan Co., N.Y.)

Final.

6. Physical Chemistry: Kinetic Theory of Gases; Properties of Solutions; The Periodic Law; Thermochemistry; Electrochemistry; Photochemistry.

   Friday at 3 p.m. (First Term), and Wednesday and Friday at 3 p.m. (Second Term.)

7. History of Chemistry.

   Tuesday at 3 p.m. (Second Term.)

8. Quantitative Analysis.

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*This option is for students who intend to take a course in Medicine.

9. Assaying.

Subjects (1), (2) and (3) must be taken at one examination, but may be taken without (4) and (5).

Subjects (6) and (7) must be taken at one examination, but may be taken without (8) and (9).

Books:

Walker's Physical Chemistry (Macmillan & Co.)
Ostwald's General Chemistry (Macmillan & Co.)
Meyer's Modern Theories of Chemistry.
Ladenburg's History of Chemistry (W. F. Clay, Edinburgh).
Rodwell's Birth of Chemistry (Macmillan & Co.)
Bolton's Quantitative Analysis (J. Wiley & Sons).
Furman's Manual of Assaying (J. Wiley & Sons).
Waddell's Arithmetic of Chemistry (The Macmillan Co.)

Syllabus of Quantitative Analysis and Assaying.

1. Barium Chloride—Ba, Cl, H_2O
2. Magnesium Sulphate—MgO
3. An Ammonium Salt—NH_3
4. A phosphate—P_2O_5
5. Dolomite—CaO, MgO, SiO_2, Fe_2O_3, CO_2
6. Coal—water, volatile matter, fixed carbon, ash.
7. Bleaching powder—available chlorine.
8. Iron ore—qualitative analysis; determination of Fe, SiO_2, S.
9. Pig iron—Si, P, Mn. C.
10. Zinc ore—Zn.
11. Lead ore—Pb.
12. Copper ore—Cu by electrolytic and cyanide methods.
13. Nickel ore—Ni by electrolytic method.
14. Silver coin—Ag by cupellation.
15. Pig lead—Ag and Au
16. Gold and silver ores—Au and Ag by pot assay.
17. Silver ore—Ag by blowpipe assay.
18. Barite—BaO, SrO, SO_3
19. Bronze—Cu, Sn, Zn.
20. Alkalimetry—
21. Acidimetry—
22. Chrome iron ore—Cr_2O_3
23. Feldspar—SiO , AlO_3, CaO, MgO, K_2O, Na_2O
24. Titaniferous iron ore—TiO_2, Fe, SiO_2, S, P, MnO, CaO, MgO.
25. Arsenopyrite—As.

Syllabus of Industrial Chemistry.

Lixiviation, Levigation, Evaporation, Distillation, Sublimation, Filtration, Crystallization, Calcination, Refrigeration, Density, Water, Sulphur, Sulphuric Acid, Salt, Hydrochloric Acid and Sodium Sulphate, Soda, Chlorine, Fertilizers, Lime, Cement, and Plaster of Paris, Phosphorus, Arsenic Compounds, Sulphates, Pigments, Petroleum.

Nitric Acid, Ammonia, Potash, Glass, Ceramics, Bromine, Iodine, Water Glass, Peroxides, Oxygen, Cyanides, Carbon Bi-sulphide, Carbon Tetrachloride, Manganates and Permanganates, Destructive Distillation of Wood, Illuminating Gas, Coal Tar, Vegetable and Animal Oils, Soap, Candles, Glycerine, Starch, Dextrine and Glucose, Cane Sugar, Fermentation Industries, Explosives, Textile Industries (Bleaching and Dyeing), Paper.

For Extra-Mural Students.

Tutors are appointed to give assistance by correspondence to Extra-mural students taking classes in Chemistry, Mineralogy and Geology. The tutorial fee for any one of the three subjects is $5; and for more than one, $10. The fees are to be paid by all the Extra-mural students taking these subjects. Assistance is given in both the practical and theoretical parts of the subject.

Extra-mural students are required to do promptly the work set by the Tutor, and will not be admitted to examination until this work is completed.

JUNIOR.

Books to be read:

Walker's Elementary Inorganic Chemistry (G. Bell & Sons, London).

Shenstone's Inorganic Chemistry (Edward Arnold, London).

Waddell's Arithmetic of Chemistry (The Macmillan Co., New York), chapters I-V.

SENIOR.

Books to be read:

Van Deventer's Physical Chemistry (J. Wiley & Son, New York).

Waddell's Arithmetic of Chemistry, Chap. VI to end.

Cohen's Theoretical Organic Chemistry (Macmillan & Co.) (See syllabus.)

Richter's Inorganic Chemistry (P. Blakiston's Son & Co., Philadelphia). Chapters on Metals.

The work in *Cohen* and *Richter* is to be selected under the guidance of the Tutor.

For Students in Medicine.

First Year.

Monday and Tuesday at 11 a.m., and Wednesday, 2 to 5 p.m. The Lectures of the Junior Arts Class with Laboratory practice.

Second Year.

Thursday and Friday, at 11 a.m.

Chemical Laws and Theories, and Organic Chemistry (Senior Arts Class).

Analytical Chemistry.

N.B.—Before taking this class students must pass the examination in Junior Chemistry.

First Term.—Monday, Tuesday, Wednesday, Thursday and Friday, at 8 a.m.

Systematic Testing of Chemical Substances.
Use of the Blowpipe.
Chemical Toxicology.

Second Term.—Monday, Tuesday, Wednesday, Thursday and Friday, at 8 a.m.

Urinalysis.
Physiological Chemistry.
Analysis of Milk and Water.

Books:

Walker's Elementary Inorganic Chemistry (G. Bell & Sons, London).
Shenstone's Inorganic Chemistry (P. Blakiston's Son & Co., Philadelphia).
Waddell's Arithmetic of Chemistry.
Simon's Manual of Chemistry (Lea Brothers & Co., Philadelphia).
Irish's Qualitative Analysis.
The Urine, the Common Poisons and the Milk, by Professor J. W. Holland.
Leffman & Beam's Water Analysis.

Junior, Senior and Preliminary Honours of the Arts course cover all the Chemistry required of students of Medicine.

MINERALOGY.

Professor—Wm. Nicol, M.A.

Demonstrator—L. L. Bolton, M.A.

Students in Mineralogy are expected to take part in the field excursions, held during the fall term. The cost of the field work will not exceed five dollars.

Pass and Preliminary Honours may be taken in one year by students in Honours.

Divisions one and two of Pass Class are required of students in Geology.

Students intending to take Mineralogy are advised to take Junior Chemistry, Junior Physics, and the lectures on Crystallography before commencing it.

In addition to essays and correspondence extra-mural students are required to determine and describe the minerals in collections furnished by the demonstrator.

For extra-mural students a collection of wooden crystal models may be obtained for two weeks by depositing five dollars with the Registrar, to be refunded when the models are returned.

Each student in this Department is supplied with a locked cabinet containing about 80 minerals, for which a cash deposit must be made and a receipt given, and an agreement made to return the minerals at the close of the session.

Examinations are held only at the University.

One of the rooms in connection with the Department of Mineralogy has been furnished as a study and consulting room for students in this department. The Professor or his assistant will be available for consultation at hours when classes are not being held. Systematic and illustrative collections of minerals are on exhibition.

The Department is furnished with a first-class lantern and projection-apparatus.

Books from the Library of the Department of Mineralogy and from the Professor's private library may be obtained by application to the Professor.

Pass.

1. Elementary Mineralogy.

2. Description and determination of the following minerals: Diamond, graphite, native silver, native gold, native copper, stibnite, molybdenite, galenite, chalcocite, malachite, azurite, sphalerite, niccolite, smaltite, pyrrhotite, bornite, chalcopy, rite, pyrite, marcasite, arsenopyrite, halite, fluorite, quartz and prin, vars, corundum, hæmatite, magnetite, chromite, pyrolusite, psilomelane, limonite, calcite, dolomite, siderite, orthoclase, plagioclase, pyroxene and vars, olivine, amphibole and vars, garnet, tourmaline, stilbite, muscovite, biotite, serpentine, talc, sphene, zircon, staurolite, apatite, barite, celestite, gypsum, coal and vars.

Text-books: Dana's Minerals and How to Study Them, 2nd Ed. (Wiley & Sons).
Crosby's Tables for the Determination of Common Minerals.

The class meets in the Mineralogy lecture-room of the Mineralogy-Geology building, at 9 a.m. on Mondays.

3. Elementary Crystallography.

A course of fifteen lectures delivered at the opening of the session at 1 o'clock p.m. on Mondays Tuesdays, Wednesdays, Thursdays and Fridays.

Text-book: Williams' Crystallography (Henry Holt & Co).

4. Blowpipe Analysis—*(a)* A course of practical demonstrations to illustrate and explain the reactions in studying the chemical properties of minerals. *(b)* A practical class in which the experiments seen in the lectures are performed by the students.

Text-book: Chapman's Blowpipe Practice, 2nd Ed. (Copp, Clark Co., 1893).

Books for Reference:

Cornwall's Translation of Plattner's Manual of Qualitative and Quantitative Analysis with the Blowpipe, 7th Ed. (Van Nostrand Co.)
Brush and Penfield's Manual of Determinative Mineralogy and Blowpipe Analysis, 1899.
Cornwall's Manual of Blowpipe Analysis (Van Nostrand Co.)
Landauer's Blowpipe Analysis.
Endlich's Manual of Qualitative Blowpipe Analysis.
Moses & Parsons' Mineralogy, Crystallography and Blowpipe Analysis, 2nd Ed.

Students must supply their own blowpipe apparatus.

The class meets in the blowpipe lecture-room of the Mineralogy-Geology building, on Friday afternoons, from 1 to 3 o'clock.

HONOURS.

Preliminary.

(May be taken as a Pass Class.)

1. Systematic Mineralogy, illustrated by specimens, charts, lantern-slides, etc. Monday, 2 p.m.; Wednesday, 11 a.m.

Text-book: Dana's Text-book of Mineralogy, 1902, (Wiley & Sons).

Books for Reference:

Miers' Mineralogy (Macmillan & Co.)
Van Horn's General and Special Mineralogy.
Naumann-Zirkel's *Mineralogie.*
Tschermak's *Mineralogie.*

2. Practical Crystallography.
   Practical study of crystal forms by means of crystals, and wire and wooden models. Tuesday and Thursday, 10 a.m.

Text-book: Williams' Crystallography (Henry Holt & Co.)

3. Qualitative analysis of minerals by blowpipe and wet reagents:—The course in Qualitative Analysis in connection with Preliminary Honour Chemistry and, in addition, the analysis of selected mineral samples to be secured by the students individually from the Professor.
   Lectures on Qualitative Analysis.

Text-book: Fresenius' Qualitative Analysis.

Books for Reference:

Ostwald's Foundations of Analytical Chemistry (Macmillan & Co.)
Menschutkin's Analytical Chemistry (Macmillan & Co.)

4. Essays on prescribed subjects.

Final.

1. Descriptive Mineralogy.
   Description and classification of the commonly occurring minerals, special attention being given to Canadian ores and rock-forming minerals. Monday, 8 a.m. Attendance compulsory.

Text-book: Dana's System of Mineralogy, 6th Ed. (Wiley & Sons).

Books for Reference:

Chapman's Minerals and Geology of Ontario and Quebec, 3rd Ed. (Copp Clark Co.)
Commissioners' Report on Mineral Resources of Ontario, 1890.
Reports of the Bureau of Mines, 1891-1903.
Reports of Geological Survey.
English's Catalogue of Minerals.

2. Determinative Mineralogy.

   Practical instruction in the determination of minerals by means of the blowpipe and by field tests. Wednesday, 8-10 a.m.
   Examination of specimens from cabinets. Thursday and Friday, 8 a.m. Attendance compulsory.

Text-books: Brush & Penfield's Manual of Determinative Mineralogy and Blowpipe Analysis (1899).
Crosby's Tables for the Determination of Common Minerals.
Eakle's Mineral Tables.

3. Quantitative Analysis of Minerals (selected samples).

Text-book: Fresenius' Quantitative Analysis.
Lectures on Quantitative Analysis.

4. Economic Geology. (See under *Geology.*)
5. Petrography. (See under *Geology.*)

6. The use of heavy solutions in separating minerals for rock-analysis.
7. Use of Contact and Reflecting Goniometer.
8. Drawing Crystals from Goniometric Measurements.
9. A course of lectures on Economic Mineralogy. These lectures will be illustrated by lantern-slides, and will be delivered at hours convenient for the class.
10. Essays to be handed in as follows:
    Oct. 31, 1904—Graphite and its uses.
    Nov. 30, 1904—The Arsenic Industry.
    Dec. 30, 1904—Corundum in Ontario.
    Jan. 31, 1905—Iron Ores in Eastern Ontario.
    Feb. 28, 1905—Sir Wm. Dawson, Sir Chas. Lyell.
    Mar. 31, 1905—Quartz for ornamental purposes.

Books for Reading:

Hugh Miller's Works.
Lyell's Principles of Geology.

The professor reserves the right to retain for the department essays of merit.

GEOLOGY.

Professor—Willet G. Miller, M.A.
Acting-Professor—R. W. Brock, M.A.
Demonstrator—M. B. Baker, M.A.

Students taking work in this department have access to the Geological and Mineralogical museum of Queen's University and the School of Mining, and to the Geological library and reading room.

The petrographical laboratory is supplied with electric power, diamond saws and other apparatus required in the preparation of thin sections of rocks and minerals for examination under the microscope.

The microscope room is provided with several instruments of the latest and most approved designs.

The chemical laboratory in connection with the Geological Department is supplied with the necessary equipment for the chemical investigation of rocks. An additional laboratory is equipped for mechanical and physical petrographical work, and geological experiments.

A corresponding tutor has been appointed to communicate with extra-mural students.

Pass.

(Students taking Geology are advised to take Mineralogy I.)

The following themes will be treated of in the lectures: The planetary relations of the earth; the atmosphere; water; solid crust; probable nature of the earth's interior; rocks; their general megascopic and microscopic characters and classification; volcanic action; earthquakes; upheaval; subsidence; geological effects produced by heat, air, water and life; bosses; dykes; veins; stratification; dip; strike; anticline and syncline; faults; foliation; nature and uses of fossils; stratigraphical geology; outline of geological history; economic geology, etc.

The lectures are illustrated by means of maps, diagrams and lantern views.

The laboratory work will consist of the examination of typical specimens of the different groups of fossil plants and animals, and of hand specimens of the more common rocks.

During the months of October and November excursions will be made to places of geological interest in the vicinity of Kingston. All students are expected to join these excursions. The cost will not exceed five dollars.

Essays are required on prescribed subjects.

Students are expected to provide themselves with some elementary book on the subject. W. B. Scott's "Introduction to Geology," (the Macmillan Co., price $1.90) is recommended.

Books for Reference:

Dana's Manual of Geology.
Le Conte's Elements of Geology (5th Ed. by H. E. Fairchild).
Chapman's Minerals and Geology of Central Canada.
Kemp's Hand-book of Rocks.

Extra-mural students are advised to read Le Conte's Elements of Geology (last edition), or Geikie's Text-book of Geology (4th edition). They will also be required to write essays on prescribed subjects.

Students who are not taking Mineralogy are advised to pay particular attention to Chapter I of Scott's Geology, and to provide themselves with a collection of the principal rock-forming minerals.

HONOURS.

Preliminary.

(May be taken as a Pass Class.)

(Students taking Preliminary Honour Geology are required to take or to have taken Crystallography in Senior Chemistry.)

Lectures on:

Physical Geography, Petrography and Palæontology.

The laboratory work will consist of the preparation of thin sections of minerals and rocks and their microscopic determination.

The museum work will consist of the megascopic determination of rocks and the naming and classification of Canadian fossils.

Field work. Essays are required on prescribed subjects. Candidates will also be examined on the following:

Davis', Page's or Geikie's Physical Geography.
Chapman's Minerals and Geology of Central Canada, Part IV.
Dana's Manual of Geology.
Luquer's Minerals in Rock Sections.
Kemp's Hand-book of Rocks.

Books for Reference:

Wood's Elementary Palæontology.
Harker's Petrology for Students.
Dana's Text-book of Mineralogy.
Cole's Aids in Practical Geology.

Students are advised to devote as much time as possible to field work during the preceding long vacation, and to collect material for study in the laboratory during the winter. Opportunities will be offered advanced students for engaging in field work during the summer vacation.

Final.

Lectures on:

Petrography.
Palæontology.
Geology of Canada.
Geology in its relations to Mining and Agriculture.
Construction of Geological Maps and Sections.
Laboratory, Museum and Field work.

Candidates will also be examined on the following:

Geikie's Text-book of Geology (4th Edition).
Geikie's Field Geology.
Chapman's Minerals and Geology of Central Canada, Parts IV and V.
Dawson's Hand-book of Canadian Geology.
Geikie's Founders of Geology.
Branner & Newson's Syllabus of Economic Geology.
Kemp's Ore Deposits of the United States and Canada.

Books for Reference:

Rosenbusch's Elemente der Gesteinslehre.
Rosenbusch's Microscopical Physiography of Rock-Forming Minerals.
Zirkel's *Petrographie,* Vols. I, II and III.
Harker's Petrology for Students.
Nicholson's Palæontology..
Zittel's Text-book of Palæontology. (Eastman).
Williams' Geological Biology.
Dawson's Ice Age in Canada.
Wright's Ice Age in North America.
Phillips' Ore Deposits.
Beck's Lehre von den Erzlagerstätten.

Students are advised not to undertake the work in Final Honour Geology until they have acquired a sufficient knowledge of Chemistry and Mineralogy. They should be prepared to devote a large part of their time to the subject throughout the session. Each member of the class will be encouraged to undertake research work, for which the surrounding district offers exceptional opportunities.

ART. XI—POST-GRADUATE DEGREES.

DOCTOR OF LAWS (LL.D.)

This degree is honorary, and is awarded for literary, scientific or professional distinction.

DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.) AND DOCTOR OF SCIENCE (D.Sc.)

1. Candidates for these degrees must have previously taken the degree of M.A. in the subjects they propose to offer, or must satisfy the Senate of their ability to proceed with the course.

2. Neither of these degrees can be obtained in less than three years from the date of graduation.

3. Candidates must give notice in writing to the Senate of the course they intend to take at least two years before they present themselves for examination.

4. All candidates must submit a thesis on some subject connected with their special course embodying the results of original investigation.

I. DEGREE OF PH.D.

Any two of Latin, Greek, German, Romance Languages, English, History, Moral Philosophy, Mental Philosophy, Political Science.

LATIN.

The Ph.D. course in Latin is a continuation of the Honour work. It comprises a paper in sight translation and composition, a knowledge of Roman History and Literature from 88 B.C.—37 A.D., a linguistic, critical and exegetic knowledge of certain selected authors, and a course in *one* of the following:

Comparative Philology, Archaeology or Palaeography (including Epigraphy). These different branches can be taken at different times according to arrangement.

GREEK.

The Ph.D. work in Greek is a continuation of the Honour course. Papers will be set on selected books and candidates will be tested in translation at sight and Greek prose composition. A knowledge of Greek history in the fifth century B.C., based on the original authorities, Herodotus, Thucydides and Xenophon's *Hellenics,* I and II, will be required. One of the following subjects is also included:

Comparative Philology.
Archaeology.
Palaeography (with Epigraphy).

GERMAN.

For the Degree of Doctor of Philosophy in German there will be required:

1. A general knowledge of the history of the literature.
2. A general knowledge of the history of the language.
3. Accuracy and facility in writing and speaking German.
4. An intimate acquaintance with Gothic, Old High German and Middle High German Texts.
5. An intimate knowledge of the literary works of Lessing, Goethe and Schiller.
6. An intimate knowledge of any representative author of the 19th century since the death of Goethe.
7. A dissertation in German showing originality of treatment.
8. A minute acquaintance of the period within which the dissertation lies.

ROMANCE LANGUAGES.

The following work is prescribed:

(*a*) The history of the Literature.
    1. Till the end of the 15th Century.
    2. The 17th Century.
    3. The 18th Century, taken especially in connection with the political conditions of the country.
    4. The 19th Century. Certain texts to be studied in detail.
(*b*) Oral and written Composition.
(*c*) The Philology of the Language.
(*d*) Italian or Comparative Grammar of the Romance Languages.

For books of reference for (*a*), (*b*) and (*d*) see the current Calendar and consult the Professor.

ENGLISH LANGUAGE AND LITERATURE.

Candidates offering this subject will communicate with Professor Cappon.

HISTORY.

1. The History of England.

Continuous Constitutional History.
Continuous Political History.
A Selected Period to be studied in detail from the original authorities.

2. A period of general history to be studied in detail from original authorities.

3. The literature of the special periods selected.

The books on the constitutional history of England to be studied are:—

Stubb's Constitutional History and Select Charters.
Hallam's Constitutional History.
May's Constitutional History.

Periods for detailed study:

English History.	General History.
449-1066.	493-1095.
1066-1272.	1095-1273.
1272-1485.	1273-1530.
1485-1603.	1530-1648.
1603-1714.	1648-1788.
1714-1880.	1788-1880.

Candidates are required to take the special periods most nearly corresponding with each other in English and general history, and in studying the selected periods they are expected to make themselves acquainted with their social and literary history.

Candidates are requested to put themselves in communication with Professor Ferguson, who will prescribe the authorities to be consulted.

MENTAL AND MORAL PHILOSOPHY.

1. General Course.

(A) PHILOSOPHICAL SYSTEMS.

Candidates are allowed the following options:

1. They may offer any *four* of the following books:—

Plato: Theætetus, Republic, Sophist.

Aristotle: Organon (Selections of Oxford Press), Metaphysics (Selections), De Anima, Nichomachean Ethics, Politics, Poetics.

Kant: Kritik der reinen Vernunft, Kritik der praktischen Vernunft, Kritik der Urtheilskraft.

Hegel: Encyklopädie, I and III, Wissenschaft der Logik, I and III, Phänomenologie des Geistes, Philosophie des Rechts, Philosophe der Religion.

Ability to translate the books offered is presumed.

2. They may offer any *two* of the above books, together with either (*a*) the works of any *one* of the following authors: Rousseau, Comte, Schopenhauer, Lotze, Hartmann, John Stuart Mill, Herbert Spencer, T. H. Green, Henry Sidgwick, or (*b*) one of the sections under B.

3. They may offer (1) any *two* of the authors mentioned above in Section 2 (*a*), or (2) one of these authors, together with *one* of the sections under B.

4. Candidates who take the examination for Ph.D, in Latin, Greek, French, German, English, History or Political Science, may offer either (1) any *two* of the books mentioned above in Section 1, or (2) the works of any *one* of the authors mentioned in Section 2 (*a*), or (3) one of the sections under B.

Acquaintance with the best recent criticism is in all cases required.

(B) PRINCIPLES OF PHILOSOPHY.

The following branches of Philosophy may form part of the work offered by candidates (See A., Sections 2, 3 and 4):

1. The Principles of Logic. References: The logical treatises of Hegel, Mill, Jevons, Venn, Lotze, Bradley and Bosanquet.

2. The Principles of Psychology. References: The psychological works of James Mill, J. S. Mill, Bain, Wundt, Sully, Ladd, James, Adamson and Lotze.

3. The Principles of Ethics. References: the ethical works of J. S. Mill, Bain, Sidgwick, Green, Bradley, Spencer, Stephen and Martineau.

4. The Principles of Aesthetics. References: The æsthetic treatises of Aristotle, Kant, Schiller, Lessing, Hegel, Lotze, Schasler, and Ruskin.

POLITICAL SCIENCE.

Candidates offering this subject will communicate with Professor Shortt.

II. Special Course for Teachers.

1. Candidates must hold (a) a certificate as School Inspector, or (b) a permanent First Class or High School Assistant's Certificate, or their equivalent.

2. They must submit certificates of successful experience as Teachers or School Inspectors.

Subjects of Examination.

A. (*a*) Any *two* of the books mentioned in A,1, of the "General Course," or (*b*) any *one* of the authors mentioned in A, 2 (*a*), or (*c*) any *one* of the sections under B, except Section 2, or (*d*) the examination for Ph.D. in Latin, Greek, German, Romance Languages, English, History, or Political Science.

B. Psychology.
Wundt's Physiological Psychology.

James' Principles of Psychology.
Ward's "Psychology" in Encyclopædia Britannica.
Stout's Manual of Psychology and Analytical Psychology.
Adamson's Lectures on Psychology (Works Vol. II.)

C. History and Science of Education.
Bosanquet's Education of the Young in the Republic of Plato.
Burnet's Aristotle on Education.
Bacon's Advancement of Learning.
Laurie's Comenius.
Rousseau's Emile.
Pestalozzi's Leonard and Gertrude (Channing).
De Garbo's Herbart and the Herbartians.
Hinsdale's Horace Mann.
Froebel's Education of Man (Hailman).
Sir J. G. Fitch's Thomas and Matthew Arnold.
Compayre's Educational Systems of Great Britain and Ireland.
J. E. Russell's The German Higher Schools.
Rosenkranz' Philosophy of Education.
Harris' Psychologic Foundations of Education.
Münsterberg's Psychology and Life.
Dewey's School and Society.
The chief recent Educational Reports.

II. DEGREE OF D.Sc.

1. Course for the Degree of D.Sc. in Chemistry, Mineralogy, Botany and Geology.

Candidates are required to have a thorough knowledge, practical and theoretical, of the subjects in one of the following divisions:

1. Chemistry—one of the following groups:
    - A. Inorganic Chemistry.
      Chemistry in its relations to Mineralogy.
      Inorganic Analysis and Assaying.
    - B. Organic Chemistry.
      Chemistry in its relations to Biology.
      Organic Analysis.
    - C. General Chemistry, including Chemical Theory in relation to Physics.
2. Mineralogy:
    - (1) Systematic Mineralogy.
    - (2) Mineralogy in its relations to Chemistry and Geology.

(3) Petrography.
(4) Ore Deposits.
(5) Determinative Mineralogy.
(6) Assaying.
(7) Economic Mineralogy of Canada.

3. Biology:

Comparative Anatomy and Physiology, Chemistry of Ferments, Bacteriology, with either of the following groups:

I. (1) Special Studies in Vegetable Histology and Physiology.
  (2) A practical acquaintance with the Cryptogamic Flora of Canada.
II. (1) Animal Physiology and Embryology.
  (2) Osteology and Odontography of Vertebrates.
  (3) Special Study of Invertebrates (Canadian).
  (4) Physiological Chemistry.

A thesis containing original work done in one of these subjects.

4. Geology:

Standing equivalent to Preliminary Honours in Chemistry and Mineralogy will be required of candidates in this department.

Either of the following groups may be chosen by a candidate as his *chief subject,* and he will be required to take the other group as a *subordinate subject:*

(1) Dynamical Geology and Petrography.
(2) Stratigraphical Geology and Palæontology.

The candidate will be expected to show an acquaintance with his subordinate subject equivalent to Honours in the undergraduate course. An intimate knowledge of the chief subject must be shown.

Detailed information to be obtained from the Professors.

FACULTY OF THEOLOGY.

(1) General Announcement.

1. The course in Theology extends over three sessions of six months each, and embraces the following subjects of study: Apologetics, two sessions, Systematic Theology, Old and New Testament Criticism and Exegesis, Church History, each three sessions, Homiletics and Pastoral Theology, each one session. Junior Hebrew and Senior Hebrew, each one session, for those who have not included them in their Arts course.

2. The student who desires to enter upon the study of Theology must be a graduate of this University, or of a University whose degrees are recognized by the Senate; or he must have completed three years of a university course, as enjoined by the General Assembly.

3. Students are expected to have passed the Junior Hebrew class, and are recommended to take a full course in Arts, and to obtain a degree, before entering on the study of Theology.

An Arts course, as here recognized, must embrace the study of Greek.

4. Students on entering Theology, or on intimating their purpose to study for the ministry, must be in full communion with the Church; and all such students are required, during their course, to be in communion with a congregation of the Church in Kingston.

5. At the beginning of each session each student must present a certificate to the Secretary of the Faculty from the Presbytery within whose bounds he has resided during the summer vacation; and at the close of each session

he shall, at the earliest opportunity, present his certificates to the Presbytery within whose bounds he purposes to reside.

6. Testamurs in Theology are given to students who have passed the sessional examinations on all the subjects prescribed by the General Assembly for students for the ministry.

7. Pass and B.D. examinations are held annually in April and October.

8. For further information see Blue Book of the Church, or apply to Rev. Dr. Ross, Secretary of the Faculty.

(2) Matriculation.

Matriculation examinations begin on Thursday, Oct. 27th. Candidates must give notice to the Secretary of the Faculty before Oct. 20th.

Subjects of Examination:

Examination papers will be set in the following departments:—

1. The Shorter Catechism and the contents of the Epistle to Galatians and Romans, in English.
2. Acts of the Apostles, I-XII in Greek, and Dods' Introduction, pp. 1-75.
3. Hebrew—The Article, Pronouns, Inseparable Particles, the Kal of Regular Verb, Grammatical Analysis, Ps. I, I Sam. IX. English—Amos I, VII, Hos. I-II, Isaiah I, VI, VII, Micah I-III, Jordan's Prophetic Ideas and Ideals, pp. 108.
4. The Acts of the Apostles in the R.V., and Bartlet's Early Church History, pp. 1-66.

One paper will be set in each department.

Subjects of Study.

I.—SYSTEMATIC THEOLOGY.

Professor—Principal Gordon, M.A., D.D.

The course in this class extends over three Sessions.
Christ and the Individual Believer. The Work of Grace.
Christ and the Church. The Means of Grace.

Text-Book: Van Oasterzee's *Christian Dogmatics*. Chapters V. and VI.

New Testament Theology. The Teaching of Jesus in the Gospels.
Text-Book: Admey's *The Theology of the New Testament.*

Pastoral Theology and Homilities. In addition to the treatment of this subject by Principal Gordon, a special course of lectures upon the Office and Work of the Christian Ministry will be given by the Rev. G. M. Milligan, D.D., LL.D.

II.—HEBREW.

PROFESSOR—Rev. W. G. Jordan, B.A., D.D.

TUTOR—J. A. Petrie, B.A.

Junior Hebrew.

Davidson's Hebrew Grammar, the first twenty exercises.
Psalm I, Genesis I, I Samuel IX-XI.

Senior Hebrew.

Davidson's Grammar, exercises in paragraphs 23 to 38 inclusive.
Hebrew Syntax; the class lectures. Deut. I-X.

III.—APOLOGETICS.

PROFESSOR—Rev. D. Ross, M.A., B.D., D.D.

The course in this class extends over two Sessions, and must be taken during either the first and second, or second and third years of the Theological curriculum. Students who have already taken first or second class Honours in Philosophy are exempted from one year's attendance.

1. Lectures on Apologetics from the beginning of the 16th century.
2. Lectures on Fundamental Apologetics.
3. Examination of Bruce's Apologetics, Books I and II. Butler's Analogy, Part I.

IV.—O. T. CRITICISM AND EXEGESIS.

PROFESSOR—Rev. W. G. Jordan, B.A., D.D.

1 Sam. I-IX.
The Historical Literature.

Honour course:

The History of Hexateuch Criticism.
Hebrew. Job I-VI.
Exercises in Davidson's Grammar, 38 to the end.
Syntax, the Hebrew tenses. Isaiah XLII 1-7, XLIX 1-6, LI 9, LII 13, LIII 12; Ezra 6.
This course extends over two years.

V.—N. T. EXEGESIS AND CRITICISM.

PROFESSOR—Rev. D. Ross, M.A., D.D.

The course in this class extends over three Sessions. Students who have taken first or second class Honours in Greek are exempted from one year's attendance.

Selections from the Gospels.
Commentaries: Expositor's Greek Testament. The International Critical Commentaries.
Kenyon's Textual Criticism.
Lectures on Introduction and Criticism.

VI.—CHURCH HISTORY AND HISTORY OF DOGMA.

PROFESSOR—Rev. S. McComb, M.A., D.D.

Lectures on Eusebius' Ecclesiastical History.
Lectures on History of the Doctrine of the Incarnation.

HONOUR COURSE.

Lectures on Gwatkin's Selections from early writers.
Lectures on Harnack's Das Wesen des Christenthums.

Classes, open to Theological students who have an elementary knowledge of the German language, are conducted by Professors McComb and Jordan. The textbooks for 1903-4 are Harnock's Das Wesen des Christenthums, and Marti's Geschichte der Israelitischen Religion (Vierter Abschnitt).

VII.—ENGLISH BIBLE.

LECTURERS—Principal Gordon, D.D., Professor McComb, D.D.

The course in this class extends over two Sessions, and is intended to cover the whole Bible.

O.T. Part II. The Prophets, later histories, Exile and Restoration, and the Poetical Books.
N.T. Part II. The Acts of the Apostles and the Epistles.

The Church requires the following discourses to be delivered during the course:—Homily, Lecture and Greek Critical Exercise, Sermon and Hebrew Critical Exercise.

Pass Examination.

On the work of the Session.

Degree of Bachelor of Divinity.

REGULATIONS.

1. Candidates for the Degree of Bachelor of Divinity, (B.D.), must be graduates in Arts of this University, or of a University whose degrees are recognized by the Senate, and must follow the prescribed order of classes in Theology.

2. The degree shall not be conferred until the candidate has completed the theological curriculum, with a view to the ministry in the church to which he belongs, and has passed a satisfactory examination in the branches of Theology taught in the University.

3. The divisions of the examinations shall be (1) The Holy Scriptures. Candidates will be expected to show a competent knowledge of the contents of the Old and New Testaments, and to show special acquaintance with at least one book from the O. T. and one from the N. T. The Revised Version should be used. This division is compulsory on all candidates. Any two of the following may be taken in addition: (2) O. T. Criticism and Introduction, Hebrew and Aramaic. (3) N. T. Criticism, Exegesis and Introduction. (4) Systematic Theology. (5) Church History and History of Dogma. (6) Apologetics and Comparative Religion.

Two papers will be set in (1) and four papers in each of the other divisions.

4. Candidates who have completed the Theological course may be examined in all the subjects, or may defer their examination in any subject.

5. Students may be admitted to examination in only one division at the end of the second session of their theological course.

6. A candidate may, subject to the preceding regulations, appear at any University examinations in Theology, provided he gives two weeks' notice of his intention to the Registrar and pays the examination fee.

Autumn examinations begin on Thursday, Oct. 27th. Candidates must give notice to the Secretary of the Faculty before Oct. 1st.

Subjects of Examination:

I. The Holy Scriptures. The contents of the Old and New Testaments generally, with a special knowledge of Isaiah and St. Mark, in the Revised Version.

Books recommended:

Bennett's Primer of the Bible, or Kautzsch's Outlines of O. T. Literature.
Driver's Isaiah.
Menzies' The Earliest Gospel.

II. Hebrew and Aramaic. O. T. Introduction and Criticism.

(a) The Prophetic Literature, or the Composition of the Hexateuch.

(b) Theology and Exegesis. Psalms 120-137, Job VII-XII.

(c) *Aramaic.* The Book of Ezra with special reference to Aramaic passages.

There are two papers in division *(b)* and one each in *(a)* and *(c)* Extra-mural candidates may substitute for *(c)* Gen. I-IV.

Books to be consulted:

Driver's Introduction, Bacon's Genesis of Genesis, Driver's Deuteronomy, Davidson's Job, Cornill's History of Israel, Dillmann's Genesis, The Oxford Hexateuch, Bradley's Lectures on Job, Driver's Daniel, MacFadyen's Messages of the Prophetic and Priestly Historians, H. P. Smith's O. T. History, Cheyne's Origin of the Psalter.

Ryle's Ezra, Cambridge Bible, Skinner's Isaiah II, Driver's Isaiah, Cornill's Prophets of Israel.

III. N. T. Criticism, Exegesis and Introduction.

(a) 1. Canonics.
Westcott, History of the Canon of the N. T.
Charteris, Canonicity.

2. Textual Criticism, MSS. Versions and principal disputed passages.
Scrivener's Introduction to the Criticism of the N. T.
Westcott and Hort, Greek N. T. Introduction.

(b) Introduction, Salmon, Weiss, Gloag, Sanday & Headlam's Com. on Rom., pp. I-XLIV; Westcott's Com. on Heb., pp. xxvii-lxxix.

(c) Exegesis. Epp. to Romans and Hebrews.
Commentaries: Sanday & Headlam, Gifford, Godet, Calvin on Romans, Westcott on Hebrews.

(d) N. T. Greek. Blass' Grammar, Burton's Syntax of the Moods and Tenses.

IV. Systematic Theology.

(a) The Christian Conception of God; Caird's Fundamental Ideas of Christianity, Van Osterzee's Christian Dogmatics, pp. 234-354.

(b) The Christian Doctrine of Sin; Tulloch, Müller Vol. I.

(c) The Atonement; McLeod Campbell, Dale, Lidgett.

(d) The Church; Hatch's Early Organization, Hort's Ecclesia.

V. Church History and History of Dogma.

(a) Church History, Ante-Nicene Period; Gwatkin's selections from Early Christian Writers.

(b) History of Dogma; The Doctrine of the Incarnation, Athanasius—The Incarnation of the Word.

A general knowledge of the subject is required.

Books to be consulted:

Neander's Church History, Vols. I, II; Ramsay's Church in the Roman Empire before A.D. 170, part II; Dorner's Doctrine of the Person of Christ, Vol. I; Forrest's Christ of History and Experience; Hooker's Laws of Ecclesiastical Polity, Book V, sections 50-57.

VI. Apologetics and Comparative Religion.

(a) Philosophical and Historical.
Flint: Theism, Antitheistic Theories.
Pfleiderer: Philosophy and Development of Religion.
Bruce: Apologetics.

(b) Comparative Religion.
Grant: The Religions of the World.
Tiele: Outlines of the History of Religion.
Pressensé: The Ancient World and Christianity.

Benefactors have placed at the disposal of the Principal a few nominations, exempting from payment of class fees throughout the course in Arts, for intending students of Theology who have matriculated. Applications for these should be made to him or to the Registrar before Oct. 1st.

FACULTY OF MEDICINE.

The degrees of Doctor of Medicine (M.D.), and Master of Surgery (C.M.), are conferred upon candidates who comply with the following regulations:

1. Except as provided in the next regulation, every candidate must pass a successful examination upon the following subjects:

English Language, Grammar, Composition, and Literature.
Arithmetic.
Algebra to the end of Simple Equations.
Geometry, first two books of Euclid.
Latin, as in Arts Matriculation or a full equivalent.
Options, one of which must be taken: Steward's Chemistry and Physics, or one book in Greek, French or German.

2. Matriculants in Arts, graduates from a recognized University, and students who have passed the Matriculation examination of the College of Physicians and Surgeons of Ontario, or of Quebec, are not required to pass the above examination.

Note.—Candidates who intend to practice in Ontario, or who wish to register with the General Medical Council of Great Britain and Ireland, must pass the matriculation of the College of Physicians and Surgeons of Ontario, that is, the Departmental Arts Matriculation, with the Chemistry and Physics Option.

3. Candidates who are not graduates in Arts must furnish evidence of having attended some recognized Medical School for not less than four full winter sessions and one summer session, and must pass all the required examinations.

EQUIVALENT EXAMINATIONS.

The following courses and examination in Arts (attendance compulsory) will be accepted in Medicine:—

Faculty of Arts.	*Faculty of Medicine.*
1. Course and Examination in Botany (Pass).	1. Course and examination in Botany.
2. Course and Examination in Pass Animal Biology.	2. Course and examination in first year Physiology.
3. Honour Course and examination in Preliminary Honour Animal Biology, including Histology.	3. Course and examination in 2nd year Physiology and Histology.
4. Course and examination in Junior Chemistry.	4. Course of 1st year Chemistry. (See Calendar.)
5. Course and examination in Senior Chemistry.	5. Course and examination in 2nd year Chemistry.
6. Course and examination in Preliminary Honours in Chemistry.	6. Course and examination in Analytical Chemistry.

For information regarding the Medals, Scholarships and Prizes see pages 47 and 48.

NOTICES.

1. The examinations of the Medical Council are held in the City of Kingston.

2. The Calendar for the Medical Faculty, with full information respecting the curriculum in Medicine, fees, etc., can be had by applying to Dr. W. T. Connell, the Secretary of the Faculty.

3. The fee, including Registration, Examination, Laboratories, Library, Gymnasium, and the required amount of dissection material is $100 per session, but if paid in full before October 16th the fee is $95. If not paid before January 10th, $105. Special arrangements will be made as to fees with those who do not take the full course of any year.

4. Candidates who are graduates in Arts will be required to attend only three winter sessions and one summer session.

5. All candidates must furnish evidence of having had six months' experience in dispensing medicine in a physician's office.

6. Students in Arts who intend subsequently to study Medicine are advised to take the honour classes in Chemistry and Animal Biology and thus complete their Chemistry, Physiology and Histology during the undergraduate course in Arts.

Examinations are required at the end of every session as follows:

At the end of the first session:—

Physics, Anatomy, (Bones, Muscles and Ligaments), Animal Biology and Physiology, Theoretical Chemistry, Materia Medica.

At the end of the second session:—

Anatomy, Physiology, Histology, Materia Medica, Chemistry, Theoretical and Analytical.

At the end of the third session:—

Practice of Medicine, Surgery, Obstetrics and Gynæcology, Pathology, Jurisprudence, Medical and Surgical Anatomy.

At the end of the fourth session:—

Practice of Medicine, Surgery, Obstetrics and Gynæcology, Medical and Surgical Anatomy, Sanitary Science, Pathology and Bacteriology.

A candidate cannot obtain University rank for any of the foregoing examinations until he has matriculated.

FACULTY OF LAW. DEGREE OF LL.B.

1. This degree will not be conferred upon any undergraduate or upon any graduate in Arts of less than one year's standing.

2. Graduates who have taken the honour courses of this University in History and Political Science may proceed to the degree by passing on the following works:—

Commentaries of Gaius, Abdy and Walker.
Institutes of Justinian. Sandars.
Harris' Principles of Criminal Law. Also Canadian Criminal Code, with Amendments.
Maxwell's Interpretation of Statutes. Also Interpretation Acts, in Revised Statutes of Canada and Ontario.
Westlake's Private International Law.
T. A. Walker's International Law.
O. W. Holmes' The Common Law.
Goodnow's Comparative Administrative Law.
Dicey's Law of the Constitution.
Houston's Constitutional Documents of Canada.

3. Barristers-at-Law or persons who have been admitted as students-at-law by the Law Society of Upper Canada and have passed their second Intermediate Examination will be admitted to the degree by passing on the honour course of this University in History and Political Science, together with the works specified in section 2.

4. Graduates in Arts of this or any recognized University, being Barristers-at-Law, will be admitted to the degree by passing on the following works in addition to those specified in section 2:—

Bryce's American Commonwealth, Vol. I.
Stubb's Constitutional History of England.
Bagehot's English Constitution.
Bosanquet's Philosophical Theory of the State.
Holland's Elements of Jurisprudence.
Maine's Ancient Law.

5. Candidates are required to send notice to the Registrar, before the first day of March, of their intention to present themselves at any of the examinations.

SCHOOL OF MINING.

Faculty of Practical Science.

By joint action of the Trustees of the University and the Governors of the School of Mining, the School of Mining has become the Faculty of Practical Science of the University.

The object of the School of Mining and the Faculty of Practical Science is to give a theoretical and practical education in applied science.

The complete course extends over four years and leads to the degree of B.Sc., but a diploma will be awarded to those who complete three years of any one of the courses and pass the necessary examinations.

Admission.

A candidate may enter upon a course with a view to obtaining a diploma or the degree of B.Sc upon any one of the following conditions:—

1. Having matriculated in any University in the British Empire or in the United States.

2. Having passed the Junior Leaving or Junior Matriculation Examination of the Department of Education of Ontario, in English Grammar, Composition and Literature, Arithmetic, Mensuration, Algebra and Geometry, History of Great Britain and Canada, Physics and Chemistry.

3. Having been engaged for one year in engineering or surveying, or a manufacturing establishment, and hav-

ing passed the September examination in *(a)* arithmetic, *(b)* algebra to quadratic equations inclusive, *(c)* the first three books of Euclid or their equivalent in any other work on Geometry, and *(d)* English composition and dictation.

While students are admitted upon matriculating in the subjects mentioned, it is strongly urged upon them to take the complete matriculation examination with the modern language or science option. (See page 24.)

Special students may be admitted to such course of instruction as the Faculty may think proper.

The work is carried on partly in the University buildings and partly in the Mining School.

Courses of Study.

The following courses are offered:

1. Three years' courses for a diploma. 2. Four years' courses for the degree of Bachelor of Science (B.Sc.).

GROUP I.

(A) Mining Engineering.
(B) Chemistry and Mineralogy.
(C) Mineralogy and Geology.
(D) Chemical Engineering.

GROUP II.

(E) Civil Engineering.
(F) Mechanical Engineering.
(G) Electrical Engineering.

GROUP III.

(H) Biology and Public Health.

For further information see Calendar of the School of Mining, which will be forwarded on application to the Secretary, G. Y. Chown, Kingston, Ont.

EQUIPMENT.

The John Carruthers Science Hall was built in 1890 for the department of Chemistry. Part of the space is at present occupied by the departments of Mineralogy and Geology, for which a new building is in course of construction.

The practical work in chemistry is carried on in three laboratories: No. 1 for qualitative analysis, No. 2 for quantitative analysis, and No. 3 for experimentation in class, and drill on the subjects treated of in the junior lectures. No. 1 and No. 2 are fitted up with 62 and 42 locked work places, so that 104 students can be provided each with a set of apparatus under lock and key. No. 3 serves both as a laboratory and a class room. It is furnished with seats and desks which are at the same time work tables. Besides these larger laboratories there are smaller rooms devoted to special branches of analytical chemistry and to research.

The blowpipe laboratory is arranged to accommodate forty-eight students, working twenty-four at one time.

The assaying laboratory is furnished with the plant necessary for conducting assays of gold, silver, copper, iron, nickel, zinc and lead ores, by furnace, titration and electrolytic methods. With the various furnaces students are taught the use of hard coal, soft coal, coke, gasoline and illuminating gas as fuel. The laboratory is well supplied with ore-bins and samples of pulverized ore from the mining laboratory, so that practice may be had with a variety of ores. The mineral cabinets contain typical examples of the commonly occurring ores of the various metals treated in the course; these are used for illustrating the lectures which supplement the text-books used.

The mineralogical and crystallographic collections have been carefully made and arranged with a view to their use in teaching the subjects in a practical way. A special feature is the large number of sets of the commoner minerals for the daily use of the students, each of whom keeps his own set throughout the session.

The *petrographical laboratory* is supplied with electrical power and provided with diamond saws and other apparatus needed in the preparation of thin sections of minerals and rocks for examination with the microscope.

There are provided for the use of the students seven petrographical microscopes of the latest and most improved designs.

Laboratory facilities are also provided for microchemical tests, and for the use of heavy solutions in separating the constituents of the rocks.

THE ENGINEERING DEPARTMENT.

The work in engineering is practical as well as theoretical. The new Engineering building contains two laboratories for experimental work in Thermodynamics and Mechanical Engineering, three laboratories for experimental work in Electrical Engineering, and a laboratory for testing the strength of materials. In addition to these there is a large draughting room, a research laboratory and a room for surveying instruments.

The college buildings are lighted and heated from a central power plant which is connected with the Engineering building. This plant affords exceptional facilities for practical instruction.

THE MECHANICAL LABORATORY.

The mechanical laboratory consists of two departments, wood-working and metal-working. The wood-working shop is 72 x 32 feet and is well lighted on two sides. The appliances are a jig saw, a circular saw, and three wood-turning lathes, two with 4 feet beds and the third with a 6 foot bed; benches 6 feet and 12 feet long, with accommodation for two persons at each bench, and all the necessary small tools. Students are given rough sketches with dimensions of the work in which they are to engage. They are then required to make working drawings to scale, with all details, and to work from their drawings. Accurate drawings and careful work is insisted upon.

The work for each student begins with dressing wood to size and putting together by various joints. After some skill has been acquired the student is set to making boxes, drawers, simple useful objects, and various kinds of models. In the second term turning is taken up and students are encouraged to make useful articles for themselves, such as small boxes, small table book-cases, mineral cabinets, stands, &c., the cost for each being merely that of the material put into them.

The metal-working department contains one large room 64 by 16 feet, and two smaller rooms each 32 by 16 feet, besides a private room for the directors. In the large room are three lathes, two being engine lathes, two drill presses—one large and one small—a shaping machine and a gear-cutting engine for iron wheels, supplied with Brown and Sharp milling cutters. One of the small rooms contains the grindstone, the emery grinders, and a gear-cutting machine with fly cutters for brass and wooden wheels. Both gear cutters are capable of cutting any number whatever of teeth with pitches from 12 to as high as you please, and will take in blanks up to 7 in. diameter. The second small room is used mostly as a model room in which such models as are thought worth preserving are stored. This room contains also a large clock with Denison's gravity escapement, upon the model of a turret clock, and various working models which are put in motion by moving a switch. The clock supplies time to the building. And it and all the models were wholly constructed in the shops.

In the directors' room are a small lathe with slide rest, and a boring machine for drilling the blanks of lantern pinions, and other things of like kind. Two new lathes, a plane with a compound slide rest and a rack feed, and a pittler lathe are in operation.

Ten lessons in blacksmithing are taken by each student during the latter part of his first term.

The shops are airy and well warmed and lighted, and neatness, cleanliness and order are insisted upon, so that the shops become an attractive feature of the student's course.

THE MINING LABORATORY AND ORE TESTING WORKS.

The School of Mining has developed from small beginnings a large and comprehensive laboratory, with first-class modern equipment for the practical milling and dressing of all kinds of ores. With but few exceptions the appliances are of standard sizes, such as are employed in actual practice in large works, so that students may obtain efficient instruction in the adjustment, operation and care of this kind of machinery. An elaborate training is also given in the methods of testing ores for process, in which respect the School of Mining offers peculiar advantages, since many mine owners throughout the Dominion avail themselves of the facilities of this laboratory for working out problems in ore milling and dressing on such a scale as to furnish reliable *data* for the specification of projected plants. Thus large quantities of widely different classes of ores are being tested throughout each session, affording students valuable experience of the most practical sort.

A systematic course of study is carried out, involving comparative investigations into the effects produced on different ores by varying methods of crushing; hydraulic classification, jigging, buddling, vanning, riffle-washing, etc., etc.

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PART II.

PART II.

MEDALS, PRIZES AND SCHOLARSHIPS FOR 1903-4.

UNIVERSITY MEDALS.

Latin	Duncan, T. S., M.A., Westport.
Greek	Macdonnell, J. M., Kingston.
German	Jackson, Fannie A., Lindsay.
French	Clark, Grace, M.A., London, Ont.
English	Polson, S. M., Kingston.
History	Pettit, L. J., B.A., St. Thomas.
Philosophy	Brown, T. C., M.A., Richmond.
Chemistry	Slack, E. B., B.A., Williamstown.
Political Science	Guggisberg, W., B.A., Hamilton.
Mathematics	Allen, J., M.A., Napanee.
Botany	Ayers, M. H., Beamsville.
Animal Biology	Whinton, W. E. H., Kingston.
Medicine	Tandy, H., B.A., Kingston.
Surgery	Gibson, W., Emerald.

UNIVERSITY PRIZES—ARTS.

Gowan Foundation in Botany	Twohy, Henrietta, Hamilton.
Latin Prose Composition	Duncan, T. S., M.A., Westport.
Greek Prose Composition	Macdonnell, Jas., Kingston.
The Sir John A. Macdonald Prize in Political Science given by Hon. Senator Gowan, C.M.G.	Murphy, G. B., B.A., Brockville.
Roughton Prize in German	Mackintosh, Helen, Dundas.
Professor's Prize in French	Solmes, Hattie, Waupoos.
New York Alumni Prize in Biology	Bolton, E., Phillipsville.
Rogers Prize in English	Cameron, A. G., Montague, P.E.I.
Lewis	McConachie, J. C., B.A., Cranston. Whiting, C. C., M.A., Toledo.

UNIVERSITY PRIZES—MEDICINE.

Dr. Hayunga's Prize for Best Dissection	Dwyer, J. C., M.A., Kingston.
Faculty Prize of $25.00 for best examination on Anatomy, Physiology and Chemistry	Bolton, E., Philipsville.

Dr. Hayunga's Prize for best examination on Materia Medica, Therapeutics and Pharmacy	McIntosh, P. A., B.A., Dundela.
Dr. Clark's Prize for best examination on Mental Diseases	Young, J. M., B.A., Renfrew.
Dr. McCabe's Prize for best examination on Third Year Pathology	Williamson, H. J., B.A., Kingston.

UNIVERSITY SCHOLARSHIPS.

I.—Arts.

MATRICULATION.

Junior.

Nicholls Foundation, No. 2	Bowen, N. L., Kingston.
Kingston	Bland, C. H., Pembroke.
Nicholls Foundation, No. 3	Code, Ethel M., Almonte.

Senior.

Prince of Wales	Asselstine, O., Napanee.
Governor-General	McRae, Caroline J., Perth.
Chancellor	Coon, H. J., Belleville.
Williamson, No. 1	McLean, Marion, London.
Williamson, No. 2	Dingwall, R., Cornwall.
Leitch Memorial, No. 1	Ellis, D., Kingston.
Nicholls Foundation, No. 1	Macfarlane, Christine S., Carleton Place
Mayor	Reid, Jean G., Renfrew.
Mowat	Elliott, Emily H., Markham.
Forbes McHardy	Spencer, Amy, Brantford.

Special.

Senate in English	Fokes, A. F., Kingston.
McLennan Glengarry Foundation	McDonald, John A., Alexandria.

II.—ARTS AND PRACTICAL SCIENCE SCHOLARSHIPS.

Chancellor's	McKay, G. J., Owen Sound.
Graduate in Chemistry	Farnham, M. M., Prescott.
Calvin in Latin	McRae, Caroline, Perth.
McLennan in Greek	Cameron, A. G., Montague, P.E.I.
Bruce Carruthers	Bateman, G. C., Kingston. Cairnes, D. D., Grand Forkes.

III.—Medicine.

Chancellor's	McCullough, F. C., Gananoque.
Dean Fowler	Spooner, A. C., B.A., Latimer.
Hospital	Gibson, William, Emerald. Tandy, H., B.A., Kingston. Singleton, A. H., B.A., Newboro.

IV.—Theology.

A. MATRICULATION.

David Strathern Dow, $75	McDonald, John M., B.A., Orangeville
Dominion, $70	Webb, C. E., B.A., Ancaster.
Buchan, No. 1, $65	Caldwell, J. S., B.A., Watson's Corners
Buchan, No. 2, $55,	McKerracher, D. A., B.A., Dutton.
Buchan, No. 3, $45	Kidd, C. E., B.A., Prospect.

B. SESSIONAL.

The Chancellor's	Beckett, S. E., Kintail.
Spence	Wallace, H. T., B.A., Hamilton.
Anderson, No. 1	Donnell, J.A., M.A., Beaverton.
Anderson, No. 2	Strachan, C. C., B.A., Glencoe.
Toronto	Munro, M. F., B.A., Lancaster.
St. Andrew's Church, Toronto.	Watts, J. R., B.D.
Rankine	Petrie, J. A., B.A., Belleville.
Glass Memorial	Beckstedt, I. N., B.A., Chesterville.
Mackie	Beckstedt, I. N., B.A., Chesterville. Wallace, H. T., B.A., Hamilton.
James Anderson Bursary	McKinnon, J. D., Lake Ainslie, C.B.

LIST OF GRADUATES FOR 1903-1904.

MASTERS OF ARTS (M.A.)

Allen, J.	Napanee.
Andrews, D.	West Lorne.
Ayers, M. H.	Beamsville.
Bailey, W. L.	Gravenhurst.
Brown, T. C., B.A.	Richmond.
Clark, Grace	London.
Dark, T. A.	Wicklow.
Duff, K. Isobel	Otonabee.
Duncan, T. S.	Westport.
Ferguson, T. R.	Wiarton.
Froats, W. C.	Morrisburg.
Might, L.	Kingston.
McCallum, S.	Brewer's Mills.
Macdonnell, L.	Fergus.
Simpson, B. L.	Peterboro.
Teskey, Kathleen, B.A.	Appleton.
Truscott, S. A.	Sydenham.

BACHELORS OF ARTS (B.A.)

Asselstine, Elizabeth C.	Kingston.
Asselstine, E. B.	Wilton.
Aylesworth, Mabel E.	Bath.
Birch, Beatrice D.	Kingston.
Black, B. S.	Kingston.
Black, Jean B.	Hamilton.

Boyd, Agnes M.	Kingston.
Brown, G. A.	Oak Grove.
Buchanan, Mabel A.	Lanark.
Caldwell, J. S.	Watson's Corners.
Caldwell, Maxwell	Lanark.
Calvin, J. D.	Kingston.
Campbell, D.	Eganville.
Carefoot, G. A.	Newmarket.
Cattanach, Jessie S.	Williamstown.
Dunlop, J. E. S.	Ventnor.
Errett, Bessie D.	Chatham.
Ferguson, J.	Fergus.
Fetterly, H. B.	Winchester.
Fleming, A. G.	Craigleith.
Gibson, A. S.	Kingston.
Guggisberg, W. W.	Hamilton.
Hainer, F. L.	Stouffville.
Hall, T. F.	Cobourg.
Hunt, Sarah A.	Pakenham.
Hutchinson, R. A.	Walsingham.
Kilmer, E. E. C.	Aylmer, Ont.
Keyes, S. J.	Cornwall.
Laing, Mabelle	Kingston.
Lindsay, M. A. F.	London, Eng.
Mahood, A. E.	Kingston.
Malloch, Eleanor E.	Hamilton.
Marshall, D. H. J.	Campden.
Miller, F.	Avening.
Montgomery, Fannie L.	Kingston.
Moore, Margaret B.	Avonmore.
Munro, M. F.	Lancaster.
Murphy, G. B.	Brockville.
McKellar, Kate	Martintown.
McLeod, Lola	Kingston.
Pentland, G. E.	Heathcote.
Pettit, L. J.	St. Thomas.
Pierce, Ada	Willetsholme.
Platt, E. O.	Plainfield.
Purdy, May C.	Kingston.
Reid, E. J.	Centreville.
Robb, J. J.	Battersea.
Robinson, F. A.	Louisville, Ky.
Spence, H. B. L.	Kingston.
Stewart, J. R.	Waba.
Sullivan, J. F.	Ottawa.
Tompkins, Louise H.	Brockville.
Watson, G. A.	Williamstown.
Williams, Mary I.	St. Thomas.
Wilson, Annie J.	Carp.

GRADUATES IN MEDICINE (M.D.) AND MASTERS OF SURGERY (C.M.)

Bailey, R. W.	Kingston, Jamaica.
Branscombe, M. E., B.A.	Picton.
Brown, W. C.	Bellview.
Carruthers, J. S.	New Glasgow, N.S
Caskey, J. C.	Tweed.
Connolly, A. K.	Kingston.
Costello, T. J.	Calgary.
Dawson, C. K.	Bristol, Eng.
Dawson, J. K.	Wolfe Island.
DeLong, F. W.	Gananoque.
Driscoll, A. C.	Trenton.
Falkner, A. D.	Williamstown.
Ferguson, E. A.	Kingston.
Ferguson, A. A.	Glenwalter.
Gallivan, J. V.	Kingston.
Gibson, William	Emerald.
Gillespie, J. J.	Morrisburg.
Goodfellow, J. R.	Kingston.
Graham, J. A.	Montreal.
Gray, D. W.	Kingston.
Gray, T. J.	Kingston.
Hoppin, L. W.	Kingston.
Kane, J. L.	Denbigh.
Kinkead, E. C.	Kingston, Jamaica
Lalonde, A. J.	Barrie.
Leach, G. C., B.A.	Fenelon.
Lee, R. A.	Port Hope.
Munroe, A. T.	Moose Creek.
McCarthy, H.	Wolfe Island.
McCullough, F. C.	Gananoque.
McDonald, H. A.	Sunbury.
McGonigle, M.	Newboro.
Pennock, N. I.	Brockville.
Reid, Miss Victoria, B.A.	Kingston.
Robinson, E. J.	North Williamsburg.
Rutledge, S. H.	Thomasburgh.
Singleton, A. H., B.A.	Newboro.
Smith, N.	Kingston.
Tandy, H., B.A.	Kingston.
Williams, E. J. F., B.A.	Brockville.
Van Ness, C. S.	Wolfe Island.
Young, J. M., B.A.	Renfrew.

BACHELORS OF SCIENCE (B.C.)

In Mining Engineering.

Brown, T.	Hawkesbury.
Cavers, T. W.	Carleton Place.
Corkill, E. T.	Sydenham.
Dennis, E. M.	Woodstock.
Malone, E. E.	Toronto.
McKay, R. B.	Cornwall.

In Civil Engineering.

Ferguson, M. U.	Kingston.
McLennan, K. R.	Lindsay.
Squire, R. L.	Kingston.
Walker, H., B.A.	Morewood.

In Electrical Engineering.

Webster, A. R.	Gananoque.

In Chemistry and Mineralogy.

Gleeson, J. V.	Kingston.
Reid, F. D.	Kingston.

In Mineralogy and Geology.

Workman, J. K.	Kingston.

BACHELORS OF DIVINITY.

Watts, J. R., B.A.	Shelburne.

TESTAMURS IN THEOLOGY.

Beckstedt, I. N., B.A.	Guelph.
Borley, H. D., B.A.	Delaware.
Caldwell, J. A., B.A.	Lanark.
Ferguson, J. Y., B.A.	Admaston.
McLennan, G. B., B.A.	Walkerton.
Petrie, J. A., B.A.	Belleville.

BACHELOR OF LAW (LL.B.)

Sexsmith, M. E., Rev., B.A.	Centreton.

DOCTORS OF LAW (LL.D.)

The Right Honourable Douglas Cochrane, 12th Earl of Dundonald, Representative Peer for Scotland, and General Officer Commanding the Militia of Canada	Ottawa.

DOCTORS OF DIVINITY.

Neill, Rev. John	Toronto.
Pringle, Rev. John, B.A.	Dawson, Yukon.

PASS LISTS.

ARTS.

1. SUPPLEMENTAL EXAMINATIONS, SEPTEMBER, 1903.

Junior Latin—Froats, J.; Petapiece, A. W.; Robertson, J. B.; Finlayson, D.; Wallace, I.

Senior Latin—Penney, Lizzie K.; Karr, W. J.; Stevenson, R. M.; Finn, J. P.; Sharpe, Helena; Berney, Laura; Down, G. W.; Kerr, T. R.

Junior Greek—Pringle, G. W.; Lowry, Blanche; Branscombe, M. E.; Down, G. W.; Twohy, Henrietta.

Senior Greek—Stevenson, R. M.; Kerr, T. R.

Junior French—Struthers, W. E.; Fleming, A. G.; Farwell, W. G.; Errett, Bessie; Barry, Mary; Finlayson, D. K.; Jackson, V. W.; Thibaudeau, P. H.

Senior French—Ide, .W.; Odell, Lena; McEachran, J. D.; Woolsey, W. J.; Grass, Margaret F.; O'Donnell, Florence; Errett, Bessie, D.; Graham, Violet B.; Smith, J. H.

Junior German—Farwell, W. G.

Senior German—Shaver, Alice; Robertson, J. B.

Junior English—Clerihew, Caroline M.; Lawrence, C. W.; Sharp, W. H.; Ockley, Beatrice; Bolger, E. J.; Farwell, W. G.; Clark, H.; Kilburn, D. G.; Millar, R.; McKim, C. W.

Senior English—Struthers, W. E.; Sine, F. L.; Robb, D.; Hendry, Annie; Darroch, W. F.; Whitehead, J.; Gillies, D. A.

Junior History—Nicol, Margaret A.; Jackson, Fannie A.; Ide, W.; Penney, Lizzie K.; Lawrence, C. W.; Finlayson, D. K.; Branscombe, M. E.; Ettinger, J. G.; McKim, C. W.

Senior History—LeSueur, E. Daisy; Hiscock, Rita.

Junior Philosophy—MacKenzie, Maude; Struthers, W. E.; Roddick, A. M.; Berney, Laura E.; Gibson, G. H. D.; Galbraith, T. M.; Robb, D.; Meldrum, G. E.; Robertson, J. B.; Deutschmann, F. W.; Petapiece, A. W.; McKim, C. W.; Laird, W. L.; Lawrence, C. W.

Senior Philosophy—Sheppard, F. W.; Fetterly, H. B.; Rielly, F. J.; Kidd, W. J.; Watson, G. A.; Boyd, Agnes; Keyes, S. J.

Junior Political Science—Finlayson, D. K.; Smith, J. H.; Lowe, W. D.

Senior Political Science—Sullivan, J. F.; Jones, F. A.; Brick, W.; Meldrum, G. E.; Lowe, W. D.; Graham, Violet B.

Junior Mathematics—Black, Jean B.; Aylesworth, Mabel A.

Senior Mathematics—Might, L.; Kidd, W. J.; Lowry, Blanche; Roberts, W. C.; Amoss, H. E.; Speers, J. A.; Couch, S.; Ward, H.; Struthers, W. E.

Junior Physics—Losee, J. R.

Senior Physics—Ayers, M. H.; Moffatt, W. J.; Jackson, V. W.

Pass Botany—Robertson, J. B.; Errett, Bessie D.

Pass Animal Biology—McIntyre, D. N.; Boyd, Agnes M.

Pass Geology—Closs, F.; Eyre, W. H.; Fleming, A. G.; Milden, A. J.

Junior Chemistry—Rielly, F. J.; Spence, H. D. L.; Porter, W. C.

Senior Chemistry—Moffatt, W. J.; Lowry, Blanche; Cameron, J. S.

2. SESSIONAL EXAMINATIONS.

Junior Latin—Div. I, Burns, J. C.; Rintoul, A., and McGillivray, J. M., equal; Cornett, A. D., and Spotswood, Edna, equal; Bertram, Jean K.; Forrester, J. W.; Clugston, J. F., Beecroft, A., Nicol, Margaret, Bowen, N. L., McIntosh, W. D., and Macfarlane, Annie S., equal. Div. II—Murday, A. M.; Donald, Jea n;McMichael, Mary; Welch, J. O., and Campbell, N. W., equal; Laidlaw, R. J.; Graham, Violet B.; Robb, W.; Montgomery, J. A., Ferguson, J., and Anderson, J. A., equal; Mills, Francis, and Goodfellow, F. J., equal; Chandler, Pearl, Shaver, J. A., Atwater, H. E., and McCallum, J. F., equal. Div. III—Drysdale, F. W.; Macdonnell, Eleanor; Dunham, C. S., and Byers, J. C., equal; Hallett, W., and Clarke, H. J., equal; Houston, J. A., Reynolds, M. Lillie, McCrimmon, J. B., and Wallace, S. A., equal; Reynolds, B. C., Letherland, A., and McInnes, G. A., equal; Hiscock, May B., and Payne, E. Clara, equal; Donevan, F. J., and Grover, J. I., equal.

Senior Latin—Div. I, McRae, Caroline; Boak, A., and Cameron, A. G., equal; Ramsay, D. C.; Dunlop, Florence; Uglow, W. L.; Dingwall, R., and Everts, H. A., equal; Gilmour, A., and Osgoode, J. A., equal; Amoss, H. E., and Fokes, A. F., equal; Austin, Bessie, Kennedy, F. C., McKinnon, G. W., and McLean, Marion, equal. Div. II—Spencer, Amy; Greenlees, Elva; Montgomery, A. R.; Anglin, Jennie, and Jones, F. A., equal; Bailey, W. L.; McLennan, C. Lillie; McEachern, G. D. Div. III—Smith, G. H.; McConkey, Edith; McCutcheon, J. M.; Donald, Helen, and Lowe, Constance, equal; Sully, L. K.; Williamson, Florence; Keyes, S. J., and Stothers, Minerva, equal; Stretton, Eva; McCuaig, H.; Dickson, Zilpha, Murphy, G., and Bothwell, A. M., equal; Clarke, H. M., Hunt, Sara, Miller, J. H., and Tod, A. S., equal.

Junior Greek—Div. I, Burns, C. J.; Rintoul, A.; McGillivray, J. M.; McIntosh, W. Div. II—Beecroft, A.; Carefoot, G. A., and McCracken, H. R., equal; Hay, W., and Cornett, A. D., equal. Div. III—Ferguson, J. D.; Montgomery, J. A., and MacKinnon, A. D., equal; Beveridge, R. W., and Fetterly,

H. B., equal; Ferguson, W., and Wallace, S. A., equal; McCrimmon, J. R., and Robinson, J. C., equal.

Senior Greek—Div. I, Cameron, A. S.; Boak, A. E.; Cram, W. S.; Dingwall, R.; May, H. D.; Robinson, G. D.; Osgoode, J. A.; McRae, Caroline J.; Penney, Lizzie K.; Fokes, A. E.; Ramsay, D. C.; McKinnon, G. W. Div. II—Campbell, D.; Everts, H. A., and Tod, A. S., equal; Sully, L. K.; Dunlop, Florence M. Div. III—Stothers, Minerva; Down, G. W.; Dickson, Zilpha H.; McCuaig, H. D.; Harrison, F. W.; Murphy, W. E.

Junior German—Watson, Alice; Edwards, J. J.; Elliott, Emily M.; Scott, R. A.; Mills, Frances; Hallett, W. J.; Chandler, Pearle; McMichael, Mary W.; Macfarlane, Annie; McDonald, N. S.; Russell, Ella; Macdonnell, Eleanor.

Senior German—Div. I, McIntosh, N.; Baird, A. W.; Edwards, J. J., and Watson, Alice, equal; Poole, Edna; Macfarlane, Christena S.; Spencer, Amy; Hughes, Ada; Bongard, Edna; Solmes, Harriette; Black, N. F.; Anglin, Jennie; Bothwell, A. M.; Nicol, J. L.; Austin, Bessie; Donald, Helen.

Junior French—Div. I, Macfarlane, Christena S.; McIntosh, Helen, and Bowen, N. L.; Cornett, A. D.; Kennedy, W. W.; Reynolds, B. C. Div. II—Macfarlane, Annie S.; Chandler, Pearle E., and Spotswood, Edna, equal; Polson, J. A.; Mills, Frances W., and Bertram, Jean K., equal; Pratt, Pearle. Div. III—Crawford, Pearl; McMichael, Mary; Fuller, E. L.; Reid, Lulu; Robb, D.; Welch, J. O.; English, J. W.; Stilwell, J. B.; Reynolds, Lillie; Hiscock, May B.; Dunham, C. S., and Donald, Jean, equal; McCallum, J. E.; Jordan, D.; Nesbitt, Mabel; Letherland, E.; Hallett, W. J.; Payne, E. Clara; Hamilton, W. J.; Keys, S. J.; MacInnes, G.; Abbott, Muriel; Workman, H. C.; Clifford, Margaret.

Senior French—Solmes, Harriette; Black, N. F., and Boland, W. A., equal; Baird, A. W.; Hay, W. M.; MacIntosh, Helen. Div. II—Spencer, Amy; Macfarlane, Christena S.; Bongard, Edna; Edwards, J. J.; Feasby, W. J.; McLean, Marion; Anglin, Jennie. Div. III—Donald, Helen; Watt, W. J.; Meldrum, G. E.; Austin, Bessie; Elliott, Emily M., and Ettinger, J. G., equal; Hughes, Ada E.; Greenlees, Elva, and Smith, R. D.; Russell, Ella; Poole, Edna; Black, B. S.; Montgomery, A. R.; Hanna, Edward.

Scientific French, Fourth Year—Div. II, Robb, J. J. Div. III—Mahood, A. E.; Graham, C. W.

Scientific French, Second Year—Cornett, W. F.; Hughes, R. A.

Junior English—Div. I, Drysdale, F. W.; Bowen, N. L.; Kennedy, W. W., Ferguson, J. D., Beecroft, A., equal; McCallum, J. F., Polson, J. A., and Macfarlane, Annie, equal. Div. II—Burns, C. J., and Simmons, G. E., equal; Cornett, A. D.;

McGillivray, J. M., Atwater, H. E., McIntosh, W. D., Spotswood, Edna, Jordan, T., and McInnes, J. L., equal. Div. III—Bertram. Jean K., Stewart, Lily, Crawford, Pearl, Pratt, Pearle, equal; Turner, N. L., Rintoul, A., Whattam, R. A., Shaver, J. M., McKinnon, G. W., equal; Grover, J. I., Bluett-C., Shaver, J. A., equal; Chandler, Pearl, Anderson, J. A.. Donald, Jean, Dunham, C. S., equal; Goodfellow, T. J., Robb, D., Mills, Frances W., Forrester, J. W., equal; Hughes, R. A., McKay, J. A., equal; Byers, J. C.; Scidmore, Irene, Jordan, Dennis, equal; Wallace, S. A., Donovan, F. J., Dwyer, W.; Torrance, E.; Reynolds, Lillie; Hiscock, May B.; Ellis, R. J.; Letherland, A.; Baker, G. F.

Senior English—Div. I, Cameron, A.; Amoss, H. E.; Ellis, D., McDonald, R. J., Baird, A. W., McFarlane, Christena, Penney, Lizzie K., Edwards, J. J., Ramsay, D. C., Dunlop, Florence, Coon, H. J., Russell, Ella, Stevenson, R. M., Hay, W. M., equal. Div. II—Coates, E. W. S.; O'Donnell, Florence; Weaver, Maude; McRae, Caroline; Burns, Olive, Laidlaw, R. J., equal; McLean, Marion, and Crawford, C. M., equal; Gibson, A. H., Kennedy, F. C., Moffat, W. J., Speers, J. A., equal; Austin, Bessie; Nicol, J. F., Dingwall, R., Stead, J. H., Harrison, F. W., Jackson, R. C., Anglin, Jennie, Kidd, G. E., Hallett, W. J., and Snyder, G., equal. Div. III—Van Dusen, E.; Boak, A. E., and Dickson, Zilpha, equal; Elliott, Emily, Sharp, Helena, A., equal; Malcolm, F.; Montgomery, G. A.; Clugston, J. F., McConkey, Eva, Hagan, J. W., Montgomery, A. R., Tod, A. S., equal; Poole, Edna; Hill, J. and Kingston, H. R., equal; McGlennon, A. C., and Spencer, Amy, equal; McIntosh, Helen C., White, H. P., Scott, Carrie L., Laird, W. L., Asselstine, O., equal; Donald, Helen; Osgoode, J. A.; Sully, L., Pomeroy, J. C., and Orr, W. J., equal; Law, C. E., Gibson, A. S., and Jordan, T., equal; McFarlane, D.; Stothers, Minerva, and Ockley, Beatrice, equal; Farnham, M. M., Robinson, Mabel, Solmes, Harriette, and Shaver, Alice, equal; McKinnon, A. D., Cornett, W. F., Clark, H. M., and Might, L., equal; Carruthers, W. T., Richardson, J. A., Kerr, T. R., Code, S. W., Bongard, Edna, MacKenzie, M., Sargent, F. R., MacDonald, J., Smith, R. D., Stewart, O. J., Trask, A., Hughes, Ada E., Richardson, Kate, and McCrimmon, J. R., equal.

Junior History—Div. I, May, H. P., and Boak, A. E., equal; Baird, A. W.; Marshall, D. H., and Cathro, Elizabeth, equal; Mulloy, L. W. R., Michell, Kathleen, Mackintosh, Helen C., and Solmes, Harriette, equal; Brown, G. A.; Buchanan, J. D.; Macfarlane, Christena, S., and Russell, Ella, equal; Hawes, Ida E. Div. II—Roddick, A. M.; Branion, S. J., Clugston, J. F.; Poole, Edna, and Elliott, Emily, equal; Patterson, Harriet, Singleton, Jessie W., and Aylesworth, Mabel, equal; O'Connell, Marguerite E., and Bongard, Edna, equal; Meldrum, G. E.; Weaver, Maude; Austin, Bessie; Purdy, May; Low, Constance M., Laing, Maybelle M., and Campbell, N. W., equal; Edwards, J. J.; Grass, Margaret, Sharpe, Helena A., and Robinson, Mabel, equal; Moore, Margaret B., and Whattam, R. A., equal; Urquhart, J. R., Berney, Laura, and O'Donnell, Florence, equal; Bryson, Isabel, and Ostrom, Ethel, equal; Smith, R. D.; Williamson, Florence, and Aikin, J. A., equal; McNab, J., Scott, Carrie, Mackenzie, Maude, Hadden, A. T., and Beggs, W., equal; Finn, J. P., and McGillivray, Florence, equal; McGlennon, A. C., and Smith, G. H., equal; Odell, Lena, Shaver, Alice, Dickson, Zilpha H., and Errett, Bessie, equal.

Senior History—May, H. P., and Moffat, W. J., equal; McCracken, H. R.; Dadson, Helena; Arthur, Nellie, and Robinson, Mabel, equal; Weaver, A, H. Maude; Michell, Kathleen, and Boak, A. E., equal; Arthur, Leona; Beggs, W.; Cameron, A. G.; Solmes, Harriette, and Greenlees, Elva, equal; Singleton, Jessie, W.; Elliott, Emily M., and Dunlop, Florence M., equal; O'Connell, Marguerite, and Roddick, A. M., equal; Aylesworth, Mabel; Mulloy, L. W. R., Boland, W. A., and Maclennan, C. Lillie, equal; Scott, Carrie, and Clothier, J. O., equal; Berney, Laura; Burns, Olive M., MacKenzie, Maude, and Russell, Ella, equal; Hadden, A. T., and Urquhart, J. R., equal; Bongard, Edna; McGlennon, A. C.; Aikin, J. A.; Coates, E. W. S.; Deutschmann, F. W.

Junior Philosophy—Div. I, McDonald, R. J.; Boland, W. A.; Wormwith, N. B.; Ellis, D. S.; Atwater, H. E.; Bothwell, A. M.; Coon, H. J.; Clarke, H. J., Swanson, W. W., Cram, S., and Asselstine, Lizzie, equal. Div. II—Chapman, W. F.; Kennedy, W. A.; Stevenson, R. M.; Munro, M. B., and Uglow, W. L., equal; Clugston, J. F.; McLeod, N.; Dingwall, R., Watt, W. J., McRae, Caroline J., equal; Shaver, J. A., and Macgillivray, Florence, equal; Kennedy, W. W.; McLean, Marion, Platt, G. A., and Beecroft, A., equal; Feasby, W. J., Pearce, W. R., and Knapp, E., equal; Sharp, G. M., and McCallum, J. F., equal; Moffat, W. J.; McKenzie, M.; Law, C. E. L. H.; McGill, A. B.; Dwyer, W.; Pomeroy, J. C.; Williamson, Florence, Hendry, Annie S., and Stewart, Lily D., equal; Sully, L. K., Stothers, Minerva, and Dunlop, Florence M., equal. Div. III—Orr, W. J., Asselstine, O., and Ferguson, W., equal; Dunlop, H.; Smith, R. D., Scott, Jean M. C., Harrison, F. W., equal; Weaver, H. V., and Turner, N. L., equal; Crawford, Pearl; McIntyre, N. C., Fokes, A. F., equal; Van Dusen, E. M., Evans, J. J., Richardson, Kate, Bertram, Jean K., Byers, J. C., Hanna, E., and Donald, Helen.

Senior Philosophy—Div. I, Malloch, Eleanor; Black, N. F.; Gordon, Wilhelmina; Mulloy, L. W. R.; Macdonnell, J. M.; Morden, D. N., and Nicol, J. L., equal; Laidlaw, R. J.; Coates, E. W. S., and McGregor, D. A., equal. Div. II—Jackson, R. C.; Pringle, J. F.; MacFarlane, D., Wilkinson, A. T., Gibson, A. H., and Beggs, W., equal; Ramsay, D. C.; Tod, A. S., and Stewart, J. R., equal; Deutschmann, F. W.; Sargent, F. R.; Kidd, A.; Meldrum, G. E., and Macdonald, J., equal; Cattanach, Jessie S.; Brownlee, W. F.; Stewart, D. J.; Gibson, A., Wood, H. S., and Penman, A. G., equal; Jordan, T.; Black, B. S. Div. III—Connor, Grace L.; Kennedy, W. A.; Reid, Lulu; Laird, W. L.; Errett, Bessie; Fleming, A. G.; Purdy, May C.

Junior Political Science—Div. I, McDonald, R. J.; Pringle, J. F.; Nicol, J. L.; Kennedy, F. C. Div. II—Stewart, Lily D.; Morden, D. N.; McCutcheon, J. M.; Ferguson, W.; Brown, G. A.; Montgomery, Fannie L., and Ramsay, D. C., equal; May, H. P. Div. III—Uglow, W. L.; Fokes, A., and McKay, J. A., equal; McFarlane, D.; McNab, G. G., and Kennedy, W. W., equal; Kilmer, E. E. C., Sargent, F. R., and Robinson, G. D., equal; Simmons, G. E., and Laing, A., equal; Couch, S., McLeod, N.; McDonald, J.; Tod, A. S., and Gibson, A. S., equal; Gibson, A. H., and Stewart, D. J., equal; Chapman, W. F., and Wood, H. S., equal; Birch, Beatrice D.; McGlennon, A. C., Karr, W. J., and Leitch, A., equal.

Senior Political Science—Div. I, Beckett, S. E.; McGregor, D. A.; McDonald, R. J.; Boland, W. A., and Uglow, W. L., equal; Caldwell, Maxwell; May, H. P.; Kennedy, F. C.; Macpherson, H.; Fokes, A. F.; Nicol, J. L., and Morden, D. N., equal. Div. II—Kennedy, W. A.; Pringle, J. F.; Hall, T. F.; Kilmer, E. E. C; Deutschmann, F. W.; Dingwall, R.; Mulloy, L. W. R. Div. III—Bailey, W. L.; Marshall, D. H.; Kennedy, W. W.; McLeod, N.; Gibson, A. S.; Gibson, A. H.; Laird, W. L.; Ward, H.

Junior Mathematics—Div. I, Bowen, N. L.; Pomeroy, J. C.; Pratt, Pearle; Ferguson, J. D.; Cornett, A. D., and Polson, J. A., equal; McIntosh, W. D.; Fairlie, H. Div. II—Feasby, W. J.; Spotswood, Edna; McFarlane, Annie, and Montgomery, J. A., equal; Drysdale, F. W., and Robb, J. J., equal; Byers, J. C. Div. III—Burns, C. J.; Clifford, Margaret and Murdy, A. M., equal; Turner, N. L., Dunham, C. S., and Weaver, A. H. Maud, equal; Rintoul, A., and Goodfellow, T. J., equal; McKinnon, G. W., Bluett, C., and Montgomery, Fannie L., equal; Shaver, J. A.; Letherland, A., McPherson, Edith, and Wood, H. S., equal; Atwater, H. E., and Code, S. W. A., equal; Houston, J. A.; McInnes, G. L., and Bertram, Jean K., equal; McMichael, Mary, and Shaver, Alice, equal; McConkey, Eva F., Montgomery, W. H., and Hiscock, May

B., equal; Weir, W. J., and Jordan, D., equal; Bell, L. E., Odell, Lena, McCrimmon, J. R., and McKinnon, A. D., equal.

Senior Mathematics—Div. I, Malcolm, W.; Clarke, T. E.; Denny, J. D. Div. II—Farnham, M. M., Gleeson, J. V., and Stillwell, G. B., equal; Hill, J.; Reid, F. D.; Welch, J. O.; McIlroy, C.; Keys, S. J. Div. III—Kidd, G. E.; Branion, S. J. A.; Jordan, T., Spence, H. D. L., Stead, J. H., equal; Richardson, J. A.; Fleming, A. G.; Aylesworth, Mabel; Moore, W., and McNab, J.

Junior Physics—Div. I, Connolly, H. A. Div. II—Karr, W. J.; Pomeroy, J. C.; Arthur, Nellie; MacEachern, G. D.; Kidd, G. E.; Burns, C. J.; Pratt, Pearle. Div. III—McRae, Caroline J., and Workman, H. C., equal; Snyder, G.; Spence, H. D. L.; Finn, J. P.; MacIlroy, C.; MacCutcheon, J. M.; Claxton, W. A.; Baker, F. G.; Richardson, J. A.

Senior Physics—Div. I, Asselstine, O., and Calvin, J. D., equal; Amoss, H. E., and Coon, H. J.; Malcolm, W.; Ellis D. S.; Clarke, T. E. Div. II—Farnham, M. M.; Orr, W. J.; Stead, J. H., and Turner, N. L., equal; Denny, J. D., Fetterly, H. B., and Schofield, S. J., equal; Dwyer W. Div. III—Hill, J., Whitehead, J., and Knapp, E., equal; Welch, J. O.; Carruthers, W.; Law, C. E. L. H.; Roberts, W. C.

Pass Botany—Div. I, Caldwell, Maxwell; Hall, T. F.; McCuaig, H. D.; Watson, G. A. Div. II—MacKinnon, A. D.; Guggisberg, W. W.; Scott, Jean M. C., and Bell, F. C., equal; Dunlop, H.; Jackson, R. C., and Roberts, W. C., equal; Montgomery, Fannie L., and Sharpe, Helena A., equal. Div. III—Cornett, W. F.; Reid, Lulu, Claxton, W. A., and Curtin, C. J., equal; Harpell, T. W.; Tett, B. Extra-murals—Denny, J. D.; Hendry, Annie S.

Pass Animal Biology—Div. I, Polson, S.; Raymond, A. L.; Polson, J., and Calvin, J. D., equal; Pringle, J. F.; Cathro, Elizabeth D.; Kidd, G. E.; Lindsay, M. A. F. Div. II—McCormack, Irene, and Jordan, D., equal; Spence, H. D. L.; Stead, J. H.; Drysdale, F. W., and Farnham, M. M., equal; Baird, A. W., and Cattanach, Jessie S., equal; Kerr, T. R.; O'Donnell, Florence; Black, Jean B., Hawes, Ida E., Roberts, W. C., and Bryson, Isobel, equal. Div. III—Hughes, R. A.; Workman, H. C.; Branion, S. J. A.; Maclennan, C. Lillie, and Poole, Edna, equal; Sharpe, Helena A.; Reid, Lulu; Claxton, W. A.; Ostrom, Ethel L., and Patterson, Hariet, equal; Jones, J. E.; Cornett, W. F.; Spencer, Amy; McCuaig, H. D.; Richardson, J. A.; Lindsay, Muriel.

Junior Chemistry—Div. I, Orr, W. J.; Bowen, N. L.; Goodfellow, T. J. Div. II—Karr, W. J.; Reynolds, B. C.; Ferguson, J. D.; Welch, J. O.; Polson, J. A.; Jordan, D.; Robb, D.; Kidd, G. E.; Cattanach, Jessie S.; Connolly, H. A.; Finn, J. P.; Dunham, C. S.; Anderson, J. A.; MacInnes, J. L. Div. III—Harpell, T. W.; Houston, J. A.; Wallace, S. A.; Walsh, M. J.

Senior Chemistry—Div. I, Farnham, M. M.; Spence, H. D. L., and Dunlop, J. E. S., equal; Hill, J., and Turner, N. L., equal. Div. II—Murday, A. M.; Froats, J.; Workman, H. C.; Platt, E. O.; Dwyer, W.; Stead, J. H. Div. III—Reid, E. J.; Gillies, D. A.; Scott, R., Roberts, W. C., and Galloway, J. E. B., equal; McLellan, D.

Elementary Mineralogy and Blowpipe Analysis—Div. I, Schofield, S. J. Div. II—Struthers, W. E.; Malcolm, L.; Dunlop, H.; Fetterly, H. B.

Pass Geology—Div. I, Sharp, G. M.; Sullivan, J. F. Div. II—Jones, F. A.; Schofield, S. G.; Pentland, G. E.; Curtin, C. J.; Fetterly, H. B.; Bell, F. C.; Hagan, J. W. Div. III—Cameron, J. S.

ARTS HONOR LISTS, APRIL, 1904.

Comparative Philology—Macdonnell, J. M.; Connor, Grace L.

Latin, Preliminary—Cram, W. S.; Roddick, A. M.; Crawford, C. M. Class II—Stevenson, R. M.

Roman History—Class II, Pettit, L. J.

Latin, Final—Class I, Duncan, T. S.; Froats, W. S.; Gordon, Wilhelmina; Hall, T. F.; Connor, Grace; McGregor, Annie K.; McLean, R. A.

Greek, Preliminary—Class I, Brydon, R.; Pettit, L. J. Class II—Roddick, A. M.; Moore, Margaret B. Class III—Aylesworth, Mabel.

Greek, Final—Class I, Macdonnell, J. M.; Duncan, T. S. Class II—Black, B. S.

German, Preliminary—ClassI, Hawes, Ida E.; Brydon, R.; Dadson, Helena. Class II—Ettinger, J. G.; Arthur, Leona, and Arthur, Nellie, equal; Singleton, Jessie; Deutschmann, F. W. Class III—O'Connell, Marguerite; Michell, Kathleen; Black, N. F.

German, Final—Class I, Jackson, Fannie; Asselstine, Lizzie; Teskey, Kathleen. Class II—Williams, Mary. Class III—Munro, Margaret.

French, Preliminary—Class I, Black, N. F.; Hawes, Ida E.; Arthur, Leona M.; Hay, W. M.; Dadson, Helena; Bothwell, A. M. Class II—Arthur, Nellie; Singleton, Jessie W., and Montgomery, Fannie, equal; Lindsay, Muriel; Michell, Kathleen. Class III—MacKenzie, Maude; McLennan, Lillie; O'Connell, Marguerite; McPherson, Edythe L.; Boyd, Agnes M.; Ostrom, Ethel; Berney, Laura J.

French, Intermediate—Class II, Cathro, Elizabeth. Class III—Black, Jean B.

French, Final—Class I, Clarke, Grace; Saunders, Elsie. Class II—Asselstine, Elizabeth C.; Williams, Mary I.; Tompkins, Louise H. Class III—McGillivray, Florence; McLeod, Lola; Buchanan, Mabel; McCormack, Irene.

English, Preliminary (*Anglo-Saxon*)—Class I, McGregor, D. A.; McLeod, N., and Arthur, Nellie, equal. Class II—Cameron, A. G., and Swanson, W. W., equal; Froats, W. C., Arthur, Leona, Macgillivray, J. M., and Brown, G. A., equal. Class III—Hay, W. M.; Dadson, Helena, Smith, J. H., and Tompkins, Louise H., equal; Bothwell, A. M.; Michell, Kathleen; Boland, W. A.; Roddick, A. M.; McCormack, Irene; Gordon, Wilhelmina, Bernay, Laura, Platt, G. A., Mackenzie, Maude, and Wilson, Annie J., equal.

English Intermediate—Class I, Malloch, Eleanor. Class II—Hawes, Ida E.; Swanson, W. W. Class III—Robinson, F. A.; McConkey, Kate; Beggs, W.; Caldwell, Maxwell.

English, Final—Class I, Macdonnell, Logie; Polson, S. M.; Lowe, W. D. Class II—Newton, Meta; Teskey, Kathleen. Class III—Black, Jean B.; Chambers, L. P.; Moore, Margaret B., and Tompkins, Louise H., equal; Pierce, Ada E., and Murphy, G. B., equal; Wilson, Annie J., and Campbell, D., equal.

History, Preliminary—Class I, Moore, Margret B. Class II—McCutcheon, J. M.; McDonald, J.

History, Final—Class I, Pettit, L. J.; Pierce, Ada E. Class II—Kidd, A. Class III—Buchanan, Mabel; MacLeod, Lola; Fleming, W. S.

Philosophy, Mental and Moral (Full Course)—Class I, Brown, T. C.; Bailey, W. L.

Philosophy, Mental and Moral (Half Course)—Class I, Beckett, S. E.; Aikin, J. A.

Philosophy, Preliminary—McConachie, J. C.; McInnes, W.; Munro, M. F.; Ferguson, J.

Political Science, Preliminary—Class III, Watson, G. A.; Miller, F.; Penman, A. G.

Political Science, Final—Class I, Guggisberg, W.; Murphy, G. B.; Campbell, D., and Elder, Hosie, equal. Class II—Macpherson, H. Class III—MacQuarrie, W. J.

Mathematics, Preliminary—Coon, H. J.; Asselstine, O.; Ellis, D.; McGregor, Grace.

Mathematics, Final—Allen, J.; Duff, K. Isobel; Dark, T. A., and Truscott, S. A., equal; Simpson, B. L.; Ferguson, T. R.; Andrews, D.; Hutchison, R. A.; Asselstine, E. B.; McKellar, Kate; Cowan, S. G.

Physics, Preliminary—Class I, Anning, N. H. Class II—Malcolm, L. Class III—Brownlee, W. F., and Grove, W. G., equal; MacGregor, Grace; MacKay, J. M., and Miller, Cora, equal.

Physics, Final, Analytical Statics—Campbell, A. L.

Physics, Final, Electrodynamics—Campbell, A. L.

Botany, Preliminary—Class I, Dunlop, J. E. S.; Guy, R. D., and Birch, Beatrice D.; Purdy, Mary C.

Botany, Final—Class I, Ayers, M. H.; Brown, P. W.

Animal Biology, Preliminary—Class I, Knapp, E.; Raymond, A. L.; Cameron, D. L.; Guy, R. D. Class II—Losee, J. R.; Schofield, S. J.; Platt, E. O.; Gillies, D. A. Class III—McDermott, J. J.; Bell, F. C.; McLellan, D.; Scott, R. A.; Speers, J. A.

Animal Biology, Final—Class I, Whinton, W. E. H.; Might, L.; Ayers, M. H. Class III—Brown, P. M.

Chemistry, Preliminary—Class I, Guy, R. D.; Speers, J. A.; Dunlop, H.; Fetterly, H. B.; Losee, J. R.; Sharp, G. M.; Cameron, D. R. Class II—Whinton, W. E. H.; Sargent, F. R.; Knapp, E.; Ayers, M. H.; Hagan, J. W. Class III—Curtin, C. J.; Gibson, A. S.

Chemistry, Final—Class I, Slack, E. B.; Might, L.

Mineralogy, Preliminary—Class I, Guy, R. D.; Slack, E. B. Class II—Sharp, G. M.; Hill, J.; Curtin, C. J. Class III—Fleming, A. G.

Geology, Final—Class III, Knight, C. W.

LAW—APRIL, 1904.

Maxwell on Statutes—Class I, Sexsmith, M. E. Class II—Knox, R. H.

Common Law—Class II, Knox, R. H. Class III—Sexsmith, M. E.

International Law—Class II, Sexsmith, M. E. Class III—Knox, R. H.

Criminal Law—Class III, Sexsmith, M. E.

Constitutional Law—Class III, Sexsmith, M. E.

Roman Law—Class III, Sexsmith, M. E.; Knox, R. H.

PRACTICAL SCIENCE.

SUPPLEMENTAL EXAMINATIONS, SEPTEMBER, 1903.

Algebra of Mathematics I—Bolger, E. J.; Kilburn, D.
Geometry of Mathematics I—Rice, F. W.; Kilburn, D. G.; Denovan, J.; Bolger, E. J.; Dunkley, J. B.
Trigonometry of Mathematics I—Bolger, E. J.; Kilburn, D. G.; Anson-Cartwright, R. H. M.; Dunkley, J. B.
Astronomy—Kilburn, D. G.; Bolger, E. J.; Connell, F. M.; Richardson, G.
Spherical Trigonometry—Cartwright, C. T.; Keith, G. C.; Corkill, E. T.
Conics and Calculus—Mackie, F. H.
Calculus—Corkill, E. T.
Mechanism—Knight, C. W.; Mackie, F. H.; Malone, E. E.
Junior Chemistry—Woolsey, W. J.; Bolger, E. J.; Kilburn, D. G.; Millar, R.; Dunkley, J. B.
Senior Chemistry—Keith, G. C.; Wright, A.; Eyre, W. H.
Elementary Mineralogy and Blowpipe Analysis—Woolsey, W. J.; Fee, T.; McGinnis, W. C.
Optical Mineralogy—Dobbs, W. S.
Descriptive and Determinative Mineralogy—Corkill, E. T.; Pense, E. H.
Physics I—Miller, R.; Connell, F. M.; Kilburn, D.
Mechanical Engineering—Thompson, A. T.
Electrical Engineering—Thompson, A. T.
Thermodynamics—Thompson, A. T.; Mackie, F. H.; Webster, A. R.; Corkill, E. T.
Electrical Engineering—Thompson, A. T.
Ore Dressing—Anson-Cartwright, R. H. M.
Metallurgy I—Chaplin, G. W.; Anson-Cartwright, R. H. M.
Economic Geology—Anson-Cartwright, R. H. M.; Wright, A.
Geology of Canada—Malone, E.
Petrography—Wright, A.
Graphical Statics—Thompson, A.
General Engineering—McEwen, R. L.
Theory of Structures—Knight, C. W.
Engineering II, Theory of Structures—Corkill, E. T.; Knight, C. W.
Hydraulics—Malone, E. E.
Mining II—Malone, E. E.
Mining Designing—Malone, E. E.

SESSIONAL EXAMINATIONS, APRIL, 1904.

Junior English—Div. I, McKay, G. J.; Jenkins, W. E. Div. II—Germain, H. A.; Lazier, S. Div. III—Rockwell, D.; King, Shirley; Houser, Wilfrid H.; Sands, J. M.; King, J. L.; Akins, J. R.; Twitchell, K. S.; Matheson, H.; Gardner, Keith V.; Marcellus, J. E.; Brewster, F. A.; Peppard, Hugh; Irwin, R. J.; Orr, F. O.; McLennan, W. D.; Tett, B.; Brown, E. W.; Reynolds, B. C.; Ostrom, S. A.; Jackson, G. J.; Workman, Jos. K.

Mathematics I—Div. I, Houser, W. H.; Matheson, H.; Herriot, G. H.; McKay, G. J.; Rockwell, D.; Marcellus, J. E.; McKenzie, M.; Jenkins, W. E. Div. II, King, S.; Lazier, S.; King, J. L.; Sands, J. M.; Orr, F. O.; Akins, J. R.; Haddow, A. W.; Peppard, H.; Jackson, G. J.; Germain, H. A.; Rogers, W. R.; Malloch, E. S.; Graves, R. B. S.; McArthur, F. Div. III, Wright, G. C.; Lavoie, E.; Irwin, R. T.; Brown, E. W.; McClennan, W. D.; Cooper, R. H.; Alder, W. R.; Twitchell, K. S.; Murphy, A. A.; Campbell, A. S.; Brewster, F. A.; Marshall, J.; Ostrom, S. A.; Murray, C. W.

Mathematics II—Div. I, McKenzie, H. P.; Henderson, E. W.; Lennox, J. G. Div. II—Berney, K. C.; Rice, F. W.; McColloch, R. M.; Finnie, H. V. Div. III—McLennan, K. R.; Shorey, P. M.; Houston, D. W.; Millar, R.; Lawrence, F. H.; Pinkerton, W. A.; Milden, A. J.; Timm, W. B.

Spherical Trigonometry only—Connell, F. M.; McLaren, G. R.; Sutherland, T. F.; Code, L. B.

Descriptive Astronomy—Div. I, Germain, H. A.; McKay, G. J.; Matheson, H.; King, S.; King, J. L.; Rockwell, D. Div. II—Peppard, H.; Rogers, W. R.; Thornton, L. A.; Herriott, G. H.; McClennan, W. D.; Akins, J. R.; Houser, W. H.; Twitchell, K. S.; Marcellus, J. E.; Johnston, W. A.; McKenzie, J. M. Div. III—Jenkins, W. E.; Orr, F. O.; Murphy, A. A.; Campbell, A. S.; Murray, C. W.; Brewster, F. A.; Lazier, S.; Macphail, J. G.; Brown, E. W.; Sands, J. M.; Graves, R. B. S.; Marshall, J.; Irwin, R. T.; Wright, G. C.; Malloch, E. S.; Haddow, A. W.; Alder, W. R.; Jackson, G. J.; Gleeson, L.; Lavell, F. M.; Oswald, W. A.; Ostrom, S. A.; Cooper, R. H.; Coe, A. P.; Arthur, A.

Physics I—Div. I, Herriott, G. H.; McKay, G. J., and Rockwell, D. B., equal; Houser, W. H.; Orr, F. O.; Matheson, H.; Lazier, S., and Sands, J. M., equal; Germain, H. A.; McClennan, W. D.; Akins, J. R.; Haddow, A. W.; King, J. L. Div. II—King, S.; Rogers, W. R.; Jenkins, W. E., and Marcellus, J. E., equal; McKenzie, M.; Brown, E. W.; Marshall, J., and McEwen, D. F., equal; Alder, W. R.; Twitchell, K. S.; Peppard, H.; Irwin, R. T. Div. III—Murphy, A. A.; Reid, F. D.; Brewster, F. H.; Ostrom, S. A.; Jackson, G. J., and McArthur, F., equal; Oswald, A.; Malloch, E. S.; Murray, C. W.; Graves, R. B. S.; Campbell, A.; Bailie, A. A.; Bolger, E. J.; Weld, W. E.; Speirs, T.

Physics II—Div. I, Mackenzie, H. A.; Lennox, J. S.; Finnie, H. V.; Berney, K. C.; Rice, F. W. Div. II—Denovan, J.; Shorey, P. M.; McCulloch, R.; Millar, R.; Thornton, L. A.; Code, L. B., and Lawrence, F. H., equal. Div. III—Johnston, W. A.; Bolger, E. J.; Bailie, A. A.; McLaren, G. R., Pinkerton, W. A., Bateman, G. C., and Gage, R. G., equal; McEwen, R. L., and Sears, J., equal; Connell, F. M., Keith, G. C., Milden, A. J., and Kilburn, D. G., equal.

Physics III—Div. I, Lennox, J. S.; Mackenzie, H. A.; Baker, C. W. Div. II—Rice, F. W.; Denovan, J., and Henderson, E. W., equal; Millar, R.; McCulloch, R.; Code, E. S. L.; Berney, K. C.; Code, L. B. Div. III—Pinkerton, W. A.; Speirs, T.; Lawrence, F. H.; Finnie, H. V.; Browne, P. J.

Physics IV—Div. I, Way, W. C.; Montgomery, O. M.; Henderson, E. W. Div. II—McIlquham, W. L.; Scott, H. H.; Gage, R. G. Div. III—Baker, C. W.

Junior Physics—Div. III, Anson-Cartwright, R. H. M.

Senior Physics—Div. II, Sutherland, T. F.; Belfour, H. M. Div. III—Ferguson, M., Anson-Cartwright, R. H. M., and Strachan, B. O., equal.

Junior Chemistry—Div. I, Matheson, H.; McKay, G. J.; Jenkins, W. E.; Marcellus, J. E. Div. II—Sands, J. M.; King, J. L., and Houser, W. H., equal; Lazier, S.; Orr, F. O.; Brown, E. W.; Rockwell, D.; Arthur, A. J., and Jackson, G. J., equal; Germain, H. O.; Akins, J. R.; Johnston, W. A.; Twitchell, K. G.; King, Shirley. Div. III—McClennan, W. J.; Brewster, F. A.; Oswald, W. A.; Murray, C. W.; Graves, R. B. S.; Lavell, F. M., Ostrom, S. A., and Irwin, R. T., equal; Coe, A. P., Fletcher, W. K., Alder, W. B., Stiles, L. P., and Gleeson, Leo, equal.

Senior Chemistry—Div. I, Johnston, W. A., B.A.; Code, L. B., and Shorey, P. M., equal. Div. II—Finnie, H. V., and Haddow, A. W., equal; Denovan, J.; Pinkerton, W.; Lennox, J. S., and Timm, W. B., equal; McCulloch, R.; Berney, K. C.; Kilburn, D. G.; Dobbs, G. G., Millar, R., and Weld, W., equal. Div. III—Lawrence, F. H.; McGinnis, W. C.; Mackenzie, H. A., and Richardson, Geo., equal; McLaren, G. R.; Woolsey, W. J.; Bolger, E. J., and Dunkley, J. B., equal; Rice, F. W.; Connell, F. M.

Metals only—Div. III, Cumming, A. L.

Organic Chemistry—Div. I, Bolton, L. L. Div. II—Gleeson, J. V.; Reid, F. D.

Quantitative Analysis and Assaying—Div. I, Cairnes, D. D.; Collins, E. A., and Carr-Harris, A., equal. Div. II—Cartwright, C. T.; Bateman, G. C. Div. III—Sloan, D.; Malloch, G. S.

Qualitative Analysis—Div. I, Johnston, W. A., B.A., and Richardson, Geo., equal; Shorey, P. M. Div. II—Dobbs, Gerald, and Houston, D. M., equal; Woolsey, W. J., Timm, W. B., and Dunkley, J. B., equal. Div. III—McGinnis, W. C., McLaren. G. R., and Weld, W. E., equal; Connell, F. M., and Coe, A. P., equal; Kilburn, D. G.

Industrial Chemistry I—Div. II, Cairnes, D. D.; Bateman, G. C.

Div. III—Collins, E. A.; Wright, A.

Industrial Chemistry II—Div. I, Bolton, L. L.

Physical Chemistry I—Div. I, Montgomery, O. M.; Henderson, E. W.; Way, W. C. Div. II—Fenwick, G. P. O.; Gleeson, L. V.; MacIlquham, W. L.; Baker, C. W.; Malloch, G. S.

Physical Chemistry II—Div. III, Fenwick, G. P. O.

Chemistry of Explosives—Div. II, Fairlie, T. U., and Grant, J. R., equal; Dillabough, J. V.; Sears, J., and Walker, H., equal; Squire, R.; Shaver, P. A., and Milden, A. J., equal; Macphail, J. G. Div. III—Cumming, A. L.

Elementary Mineralogy and Blowpipe Analysis—Div. I, Marcellus, J. E.; Matheson, H.; McKay, G. J. Div. II—Murray, C. W.; Haddow, A. W.; Jackson, G. J.; Orr, F. O.; Alder, W. R. Div. III—Irwin, R. T.; Sands, J. M.; Twitchell, K. S.; Brewster, F. H.; and Kilburn, D G., equal; Connell, F. M.; Graves, R. B. S.; Gardner, K. V., McLaren, W. M., and Dunkley, T. B., equal.

Blowpipe Analysis only—Div. II, McEwen, D. F. Div. III—Fenwick, G. P. O.

Systematic Mineralogy—Div. II, Fenwick, G. P. O. Div. III—Malloch, G. S., B.A.

Optical Mineralogy—Div. I, Shorey, P. M. Div. II—Dobbs, G. G.; Richardson, G. T.; Fletcher, W. K. Div. III—McLaren, G. R., Timm, W. B., Houston, D. W., and Johnston, W. A., equal;Woolsey, W. J., McGinnis, W. C., and Coe, A. P., equal.

Descriptive and Determinative Mineralogy—Div. I, Cairns, D. D.; Dennis, E. M. Div. II—Brown, T.; Cavers, T. W.; Carr-Harris, A.; Bateman, G. C.; Sloan, D.; Cartwright, C. T.; Dobbs, W. S.; Collins, E. A. Div. III—Strachan, B. O.

Geology I—Div. I, Shorey, P. M.; McLaren, G. R.; Dillabough, J. V.; Johnston, W. A. Div. II—Sears, J.; Bailie, A. A.; Timm, W. B., and McEwen, D. T., equal; Fletcher, W. K.; Houston, D. W.; Dobbs, G. G. Div. III—Kilburn, D. G.; Woolsey, W. J., and Dunkley, J. B., equal; Fee, T., and Connell, F. M., equal; McGinnis, W. E., Richardson, G. T., and Ferguson, M. U., equal; Weld, W. E.

Geology II—Div. I, Dennis, E. M.; Malloch, G. S.; Cairns, D. D. Div. II—Carr-Harris, A.; Bateman, G. C.; Fenwick, G. P. O. Div. III—Cartwright, C. T.; Sloan, D.

Geology of Canada—Div. I, Cairns, D. D.; Sloan, D.; Fairlie, T. U.; Malloch, G. S.; Bateman, G. C. Div. II—Carr-Harris, A. Div. III—Cartwright, C. T.; Wright, A.; Belfour, H. M.; Dobbs, W. S.

Economic Geology I—Div. I, Cairns, D. D.; Fenwick, G. P. O. Div. II—Bateman, G. C.; Malloch, G. S.; Sloan, D.; Cartwright, C. T.; Collins, E. H.; Carr-Harris, A.; Chaplin, G. W., Dobbs, W. S., and Strachan, B. O., equal.

Economic Geology II—Div. I, Corkill, E. T. Div. II—Dennis, E. M.; McKay, R. B. Div. III—Drummond, L. E.

Petrography I—Div. I, Cairns, D. D.; Malloch, G. S.; Fenwick, G. P. O. Div. II—Corkill, E. T.; Carr-Harris, A.; Collins, E. H.; Bateman, G. C.; Dobbs, W. S.; Cartwright, C T.; Sloan, D.; Anson-Cartwright, R. H. M.; Wilson, E. E. D. Div. III—Sutherland, T. F.

Mining I—Div. I, Cartwright, C. T., and Cairns, D. D., equal; Bateman, G. C. Div. II—Sloan, D.; Carr-Harris, A.; Collins, E. A. Div III—Dobbs W. S.

Mining II—Div. I, Wilson, E. E. D.; Corkill, E. T.; Sutherland; T,. F.; Brown, T. Div. II—Cavers, T. W., and Dennis, E. M., equal; McKay, R. B.; Anson-Cartwright, R. H.; Wright, A.; Strachan, B. O.

Milling—Div. I, Cavers, T. W.; Sutherland, T. F.; Brown, T. Div. II—McKay, R. B.; Dennis, E. M., Wright, A., and Corkill, E. T., equal. Div. III—Wilson, E. E. D., and Anson-Cartwright, R. H., equal; Strachan, B. O., and Drummond, L. E., equal.

Mining Project and Designing—Div. I, Wilson, E. E. D. Div. II—McKay, R. B.; Sutherland, T. F.; Cavers, T. W., and Corkill, E. T., equal; Wright, A.; Brown, T. Div. III—Anson-Cartwright, R. H.; Dennis, E. M.; Strachan, B. O.

Ore Dressing—Div. I, Cairnes, D. D.; Cartwright, C. T.; Bateman, G. C.; Sloan, D. Div. II—Collins, E. H.; Carr-Harris, A. Div. III—Belfour, H. M.; Strachan, B. O.

The Law of Mines—Dennis, E. M.; Corkill, E. T.; Cavers, T. W.; Brown, T.; Wright, Albert; McKay, Robt. B.; Wilson, E. E. D.

Metallurgy I—Div. I, Cairns, D. D.; Bateman, G. C.; Sloan, D. Div. II—Way, W. C.; Collins, E. A.; Cartwright, C. T.; Carr-Harris, A. Div. III—Belfour, H. M.; McEwen, R. L.; Walkem, H. C.

Metallurgy II—Div. I, Dennis, E. M.. McKay, R. B.; Brown, T. Div. II—Corkill, E. T.; Sutherland, T. F.; Anson-Cartwright, R. H. Div. III—Cavers, T. W.; Malone, E. E.; Chaplin, G. W., and Wright, A., equal; Wilson, E. E. D.

Metallurgy III—Div. I, Brown, T. Div. II—Cavers, T. W.

Metallurgical Laboratory—Div. I, Brown, T.; Cavers, T. W.

Thermodynamics I—Div. I, Way, W. C.; Montgomery, O. M. Div. II—Henderson, E. W.; McIlquham, W. L.; Scott, H. H.; Cairnes, D. D.; Dillabough, J. V.; Gage, R. G.; McLennan, K. R.; Grant, J. R.; Collins, E. A, and Fairlie, T. U., equal. Div. III—Baker, C. W.; Carr-Harris, A., and Chaplin, G. A., equal; Keith, G. C.; Cartwright, C. T.; Sears, J.; Bateman, G. C.; Sloan, D.; Milden, A. J., and Ferguson, M., equal.

Thermodynamics II—Div. III, Webster, A. R.

General Engineering I—Both Sections (1 & 2), Div. I, Thornton, L. A.; Berney, K. C.; Code, L. B. Div. II—McKenzie, H. A., and Finnie, H. V., equal; Millar, R.; Denovan, J., and

Rice, F. W., equal; McLaren, D. F.; Kilburn, D. G., and Lennox, J. S., equal; Bolger, E. J., and McLaren, G. R., equal. Div. III—Keith, G. C., and Houston, D. W., equal; Pinkerton, W. A.; Timm, W. B.; Shorey, P. M.; Johnston, W. A.; Macphail, J. G.; Weld, W. E.; Brown, P. J., and McCulloch, R., equal; Connell, F. M.; Lawrence, J. F.; Smith, S. G., and Bailie, A. A., equal; Dobbs, G. G.; Fee, T.; Code, E. S. L.

General Engineering II—Div. I, Montgomery, O. M.; Cairnes, D. D.; Way, W. C.; McIlquham, W. L.; Henderson, E. W., and Grant. J. R., equal. Div II—Baker, C W.; Fairlie, T. U.; Carr-Harris, A.; Sloan, D.; Bateman, G. C.; McEwen, R. L.; Dillabough, J. V. Div. III—Collins, A. E.; Scott, H. H., Keith, G. C., and Walker, H., equal; Sears, J., and Gage, R., equal.

General Engineering III—Div. I, McKay, R. B.; Cavers, T. W.; Grant, J. R.; Corkill, E. T.; Dennis, E. M.; Fairlie, T. U. Div. II—Dillabough, J. V. Div. III—Squire, R.; Brown, T.; Wright, A.; Sutherland, T., Anson-Cartwright, R. H., Wilson, E. E. D., and Milden, A. J., equal.

Foundations—Dillabough, J. V.; McPhail, J. G.; Squire, R. L.; Cumming, A. L.; Walker, H. J.; Grant, J. R.; McLennan, K. R.; Fairlie, T. U.; Shaver, P. A.; Sears, J.

Structural Designing—Div. I, Grant, J. R., and McLennan, K. R.; equal. Div. II—Dillabough, J. V.; Fairlie, T. U., and Squire, R. L., equal.

Municipal Engineering—Fairlie, T. U.; Squire, R. L.; Walker, H. J.; Dillabough, J. V., Cummings, A. L., McPhail, J. G., Grant, J. R., and McLennan, K. R., equal.

Railway Engineering I—Grant, J. R.; Fairlie, T. U.; Dillabough, J. V.; Squire, R. L.; Walker, H. J.; Cumming, A. L.; McPhail, J. G.

Railway Engineering II—(Maintenance), Fairlie, T. U., and Grant, J. R., equal; Walker, H. J.; Squire, R. L.; Dillabough, J. V.; Cumming, A. L.; McPhail, J. G.; Sears, J.; McLennan, K. R.; Shaver, P. A.

Railway Engineering Construction I—Grant, J. R., and Dillabough, J. V., equal; Fairlie, T. U.; Squire, R. L.; Walker, H. J., and Cumming, A. L., equal; Sears, J.; McPhail, J. G., and Shaver, P. A., equal.

Railway Engineering Construction II—Grant, J. R.; Fairlie, T. U.; Dilabough, J. V.; Squire, R. L.; McPhail, J. G.; McLennon, K. R.; Walker, H. J.; Cumming, A. L.; Sears, J.; Shaver, P. A.

Electrical Engineering I—Div. I, Montgomery, O. M.; Way, W. C., and McIlquham, W. L., equal; Scott, H. H.; Henderson, E. W.; Gage, R. G.; Baker, C. W. Div. II—Cairnes, D. D.; Fairlie, T. U.; Dillabough, J. V.; Grant, J. R.; Squire, R. L.; Collins, E. A. Div. III—Sears, J.; Cartwright, C. T.;

Shaver, P. A.; Bateman, G. C.; Carr-Harris, A., Sloan, D., and Chaplin, G. W., equal.

Electrical Engineering II—Div. I, Montgomery, O. M.; Way, W. C. Div. II—Henderson, E. W.; Baker, C. W. Div. III—McIlquham, W. L.; Scott, H. H., and Gage, R. G., equal.

Electrical Engineering III—Div. II, Thompson, A. T.; Webster, A. R.

Electrical Engineering IV—Div. III, Webster, A. R.

Electrical Engineering V—Div. III, Webster, A. R.

Mechanical Engineering I—Div. I, Way, W. C.; Henderson, E. W. Div. II—Montgomery, O. M. Div. III—Scott, H. H.; McIlquham, W. L.; Walkem, H.; Baker, C. W.

Mechanical Engineering II—Div. II, Way, W. C.; Henderson, E. W.; Montgomery, O. M. Div. III—McIlquham, W. L.; Baker, C. W.

Mechanical Engineering III—Div. I, Way, W. C.; Henderson, E. W.; Montgomery, O. M.; Scott, H. H.; Gage, R. G. Div. II—Baker, C. W.; McIlquham, W. L. Div. III—Keith, G. C.; Webster, A. R.; McEwen, R. L., and Thompson, A. T., equal.

Mechanical Engineering IV—Div. I, Way, W. C.; Montgomery, O. M. Div. II—Dennis, E. M.; Squire, R. L.; Grant, J. R.; McKay, R. B.; Corkill, E. T.; Fairlie, T. U.; McIlquham, W. L.; Dillabough, J. V. Div. III—Cavers, T. W.; Walker, H.; Thompson, A. T.; Brown, T.; Webster, A R.; Wright, A., and McLennan, K. R., equal.

Descriptive Geometry—Div. I, Rice, F. W. Div. II—Millar, R.; Finnie, H. V.; Mackenzie, H. A.; Dennis, E. M.; McCulloch, R.; Berney, K. C. Div. III—Denovan, J.; Bateman, G. C.; Sloan, D.; Kilburn, D. G.; Gage, R. G.; Lennox, J. S.; Shorey, P. M.; McEwen, D. F.; Houston, D W.; Rogers, W. R.; Pinkerton, W. A., McLaren, G. R., Anson-Cartwright, R. H. M., Code, L. B., Stiles, L. P., and Brown, T., equal.

Drawing I—Div. I, Matheson, H.; Lazier, S.; McClennon, W. D.; Thornton, L. A.; Wright, G. C.; McKay, G. J.; King, J. A. S.; Rockwell, D. B.; Haddow, A. W., and King, J. L., equal; Marcellus, J. L.; Orr, F. O., and Herriot, C. H., equal; Peppard, H.; Murray, C. W. Div. II—Cooper, R. H.; Corbett, R. A.. and Gardner, K. V., equal; Houser, W. H., Irwin, R., and Sands, J. M., equal; Johnston, W. A., and Malloch, E. S., equal; Fleming, A. A.; Jackson, S. T.; Bolton, L. L., and Ostrom, S., equal; Graves, R. B. S.; McKenzie, M.; Marshall, J., and Aikins, J. R., equal; Lavell, F. M.; McArthur, F. R.; Alder, W. R.; Germain, H. A.; Campbell, A. S.; Twitchell, K. S.; Brown, E. W.; Malloch, G. S.; McPhail, J. G.; Murphy, A. A., Toffey, F. H., and Jenkins, W. E., equal; Kilburn, D. G.; Browne, P.

Drawing II—Div. I, Shorey, P. M. Div. II—Grenon, J. F.; Dobbs, G. G.; Brown, T.; Bolger, E.; Timm, W. B.; Smith,

S. G.; Kilburn, D. G.; Fee, T.; McEwen, D. F. Div. III—Dennis, E. M.; Cavers, T. W.; Coe, A. P.; Fletcher, W. K.; McGinnis, W. C., and Cumming, A. L., equal.

Mechanical Drawing III—Div. I, Rogers, W. R.; Finnie, H. V.; Lennox, J. S.; Rice, F. W.; Berney, K. C. Div. II—Denovan, J.; Millar, R.; Mackenzie, H. A., Speirs, T.; Stiles, L. P. Div. III—Pinkerton, W.; McCulloch, R.; Lawrence, F. H.; Code, E. S. L.; Code, L. B.; Keith, G. C.; Brown, P. J.

Graphical Statics—Div. I, Grant, J. R.; Cairnes, D. D.; McEwen, R. L., and Baker, C. W., equal; Way, W. C. Div. II—Dillabough, J. V.; McIlquham, W. L.; Keith, G. C.; Fairlie, T. U., and Henderson, E. W., equal; Squire, R. L., and Bateman, G. C., equal. Div. III—Carr-Harris, A.; Sloan, D.; Scott, H. H., and Montgomery, O. M., equal; Gage, R.; Walker, H.; Collins, E. A.; Sears, J.; Malone, E.

Mapping I—Div. I, Bolger, E. J.; McEwen, D. F.; Thornton, L. A. Div. II—Bolton, L. L.; Dobbs, G. G.; Fee, T. Div. III Houston, D. W., and Shorey, P. M., equal; Fletcher, W. K.; Timm, W. B.; Weld, W. E.; Richardson, G. T.; Smith, S. G.; Kilburn, D. G.; McPhail, J. G.; Woolsey, W. J.; Grenon, J. F.; Coe, A. P.

Mapping II—Div. I, Dillabough, J. V.; Sloan, D. Div. II—Sears, J.; Shaver, P. A.; Walker, H. Div. III—Cumming, A. L.

Surveying I—Div. I, Thornton, L. A. Div. III—Sears, J.; Johnston, W. A.; Bolger, E. J.; Malloch, G. S., and Smith, S. G., equal; Connell, F. M.; Shorey, P. M., and Houston, D. W., equal; McPhail, J. G., and McLaren, G. R., equal; Dobbs, G. G.; Fletcher, W. K.; Weld, W. E., and Fee, T., equal; McEwen, D. F.

Surveying II—Div. I, Dillabough, J. V. Div. II—Walker, H. Div. III—Cumming, A. L.; Smith, S. G.; Sears, J.; Sloan, D.

THEOLOGY.

MATRICULATION, OCTOBER, 1903.

Webb, C. W.; McKerracher, D. A.; McDonald, J. M.; Caldwell, J. S.; Kidd, C. E.

SUPPLEMENTAL, NOVEMBER, 1903.

O. T. Exegesis—Beckett, S. E.; McQuarrie, W. J.; Millar, J. H.
N. T. Exegesis—Beckett, S. E.; McQuarrie, W. J.; Moore, W.
Servant Passages—McLennan, G. B.; Caldwell, J. A.
Comparative Religion—McLennan, G. B.; Caldwell, J. A.
Leitch Memorial—Macdonnell, L. M.; Petrie, J. A.
Junior Hebrew—Moore, W.; Couch, S.
Aramaic—J. E. Smith.
Two Papers in Exegesis for B.D.—J. E. Smith.
Senior Hebrew—Hutchison, J. H.; McQuarrie, W. J.

SESSIONAL EXAMINATIONS, APRIL, 1904.

N. T. Criticism and Exegesis—Div. I, Watts, J. R.; Beckstedt, I. N., and Whiting, C. C., equal. Div. II—MacInnes, W. H.; Kidd, C. E.; Petrie, J. A.; Wallace, H. T.; Macdonnell, L.; McLennan, G. B.; Strachan, C. C.; Lindsay, M. A.; Borley, H. D.; Munro, M. F., and Hutchison, J. H., equal. Div. III—Donnell, J. A., and Kidd, W. J., equal; Caldwell, J. S.; McConachie, J. C.; Caldwell, J. A., and Ferguson, J. Y., equal.

History of Dogma—Div. I, Petrie, J. A.; Beckstedt, I. N.; Beckett, S. E.; Wallace, H. T.; Strachan, C. C.; Hutchison, J. H. Div. II—Watts, J. R.; Donnell, J. A.; Macdonnell, L.; MacInnes, W. H. E., and Borley, H. D., equal; MacQuarrie, W. J.; Munro, M. F.; McLennan, G. B., Ferguson, J., and Ferguson, J. Y., equal. Div. III—Whiting, C. C.; Woods, I. H.; Kidd, W. J.; Kidd, C. E.; Miller, J. H.; MacKinnon, J. D.; McKerracher, D. H.; Caldwell, J. S.; Lindsay, M. A. F.; Caldwell, J. A.

Apologetics—Div I, Petrie, J. A.; Strachan, C. C. Div. II—Donnell, J. A.; Lindsay, M. A.; Borley, H. D.; McKinnon, J. D.; Caldwell, J. S.; Cameron, A.; McKerracher, D. A. Div. III—Kidd, C. E.; Kidd, W. J.; Woods, I. H.

Old Testament Exegesis—Div. I, Petrie, J. A.; Wallace, H. T.; Watts, J. R. Div. II—Beckstedt, I. N.; McConachie, J. C.; Borley, H. D., and MacInnes, W. H., equal; Macdonnell, L.; Kidd, C. E., and Strachan, C. C., equal; Whiting, C. C. Div. III—Lindsay, M. A. F.; Ferguson, J. Y.; Munro, M. F., Caldwell, J. A., Caldwell, J. S., and McLennan, G B., equal.

Old Testament History (*Third Year*)—Div. I, Beckstedt, I. N.; Watts, J. R.; Petrie, J. A. Div. II—Borley, H. D.; McLennan, G. B.; Ferguson, J. Y., and Caldwell, J. A., equal. *Second Year*—Div. I, McConachie, J. C., and Wallace, H. T., equal; MacInnes, W. H., and Whiting, C. C., equal; Hutchison, J. H., and Macdonnell, L., equal. Div. II—Strachan, C. C.; Miller, J. H. *First Year*—Div. I, Donnell, J. A.; Munro, M. F., and Kidd, W. J., equal; Kidd, J. E. Div. II—Lindsay, M. A.; Woods, I. H.; Ferguson, J.; Caldwell, J. S., McKinnon, J. D., and Cameron, A., equal; McKerracher, D. A.

Junior Hebrew—Swanson, W. W.; Chambers, L. P.; MacDonald, J.; Brown, G. A.; Watt, W.; Beecroft, A.; Kidd, C. E.; Evans, A. R.; Clugston, J. F.; Hay, W. W.; Kidd, W J.; Hadden, A. T.; Ferguson, J.; Wood, H. T.; Penman, A. G.

Senior Hebrew—Wallace, H. T.; Munro, M. F.; Marshall, D. H.; Strachan, C. C.; Macdonnell, L.; Lindsay, M. A. F.; Kennedy, W. A.; Caldwell, J. S.; Stewart, D. J.; Beveridge, R. W.; Miller, J. R.; Miller, F.

Church History—Div. I, Petrie, J. A.; Beckstedt, I. N.; Watts, J. R.; Donnell, J. A.; Borley, H. D. Div. II—Whiting, C. C.; Strachan, C. C., and Wallace, H. T., equal; MacInnes, W. H., and McConachie, J. C., equal; Beckett, S. E.; Kidd, W. J.; Kidd, C. E.; Ferguson, J.; Miller, J. H.; Macdonnell, L., and Woods, I. H., equal. Div. III—Munro, M. F.; Lindsay, M. A. F.; McLennan, G. B.; Hutchison, J. H.; Caldwell, J. A.; Ferguson, J. Y., Caldwell, J. S., McKerracher, D. A., and Cameron, A. E., equal.

B. D. Holy Scripture, N. T.—Watts, J. R.; Smith, J. E.; Cowan, H.

Apologetics (1) *Pfleiderer*—Watts, J. R.; Solandt, D. M.
(2) *Flint*—Watts, J. R.; Cowan, H.
(3) *Bruce*—Watts, J. R.; McLennan, G. B.
(4) *Comparative Religion*—Watts, J. R.; Solandt, D. M.

O. T. Criticism and Exegesis—1. *Hexateuch*—McConachie, J. C.; Watts, J. R.; McLennan, G. B.; Borley, H. D.; Caldwell, J. A.; Smith, J. E. 2. *Aramaic*—Borley, H. D.; Wallace, H. T.; MacInnes, W. H.; McLennan, G. B.; McConachie, J. C.; Watts, J. R.; Caldwell, J. A. 3. *Job*—MacInnes, W. H.; Wallace, H. T.; McConachie, J. C. 4. *Servant Passages*—Solandt, D. M.

Holy Scripture, O. T.—Watts, J. R.; Cowan, H.

Divinity, The Christian Doctrine of Sin—Smith, J. E.

SUPPLEMENTARY PASS.

Jonah and Joel, 1902-1903—Watts, J. R.

Apologetics, 1902-1903—Petrie, J. A.

N. T. Theology, 1902-1903—Petrie, J. A.

Apologetics, 1903-1904—*Bruce* (*Special*), MacQuarrie, W. J.

MEDICAL EXAMINATIONS, APRIL, 1904.

First Year.

Junior Physiology—Paul, R. D.; Quigley, J. P.; Curphy, A. G.; Anderson, P. M.; Trousdale, F. H.; McCallum, S.; Laidlaw, C.; McNamara, J. P.; Burke, M. L.; Casselman, S. B.; Spankie, A. T.; Asselstine, B.; Wightman, R.; Franklin, V. G.; Spankie, W. E.; Johnston, J.; Bowen, H. G.; Storey, G. E.; McCormick, A. M.; Keeley, F. G.; Holmes, G. E.; McDermott, J. F.; Carto, G. E.; Duchesne, J. H.; Yule, W. L.; Walker, O. J. M.; Sullivan, H. G.; McDonald, A.; Charlesbois, J. A.; Ford, W. H.; Twitchell, E. G.; Herald, J. G.; Nicholls, F. R.; Reid, E. J.

Junior Chemistry—Paul, R. D.; Quigley, J. P.; Yule, W. L.; Bowen, H. M.; Casselman, S. B.; McNamara, J. P.; Anderson, P. M.; Asselstine, B.; Walker, O. J. M.; Nicholls, R. F.; Spankie, A. T.; Trousdale, F. H.; Burke, M. L.; Johnston, A. C.; Curphy, A. G.; Wightman, R.; Carto, G. E.; Keeley, F. J.; McCormick, A. M.; Bond, H. L.; Haycock, G. G.; Spankie, W. E.; Franklin, V. G.; Sullivan, H. J.; Ford, W. H.; Shannon, S. S.; McDonald, A.

Junior Anatomy—Trousdale, A. H.; Losee, J. R.; Johnston, J.; Wightman, R.; Raymond, A. L.; Quigley, J. P.; McNamara, J. P.; Asselstine, B.; Anderson, P. M.; Graham, C. W.; Bowen, H. M.; Paul, R. D.; Burke, M. L.; Spankie, A. T.; Greaves, G. A.; Casselman, S. B.; Yule, W. L.; McCormick, A. M.; Porter, W. C.; McCallum, S.; Keeley, F. J.; Laidlaw, C.; Carto, G. E.; Cays, F. A.; Platt, E. O.; Nicolle, F. R.; Curphy, A. G.; Walker, O. J. M.; Mills, R. M.; Spankie, W. E.; McDonald, A. M.; Johnston, A C.; McDermott, J. F.; Sullivan, H. J.; Nicholls, R. F.; Ford, W. H.; Holmes, G. E.; Storey, G. E.; Cliff, G. F.; Riddick, W.

Junior Materia Medica—Burke, M. L.; Trousdale, F. H.; Platt, E. O.; McCallum, S.; Wightman, R.; Curphy, A. G.; Johnston, J.; Raymond, A. L.; Casselman, S. B.; Laidlaw, C.; Anderson, P. M.; McNamara, J. P.; Quigley, J. P.; McDermott, J. F.; Nicolle, F. R.; Carto, G. E.; Porter, W. C.; Storey, G. E.; Losee, J. R.; Franklin, E. G.; Asselstine, B.; Spankie, A. T.; Paul, R. D.; Keeley, F. J.; Yule, W. L.; Johnston, A. C.; Bowen, H. M.; McDonald, A.; Greaves, G. A.; Walker, O. J. M.; Nicholls, R. F.; Ford, W. H.; Sullivan, H. J.; Taugher, W. J.; Spankie, W. E.; McCormick, A. M.; Mills, R. M.; Bond, H. E.; Duchesne, J. H.; Cays, J. A.; Riddick, R.; Holmes, G. E.; Twitchell, E. C.; Cumming, A. W.

Second Year.

Senior Anatomy—Baker, A. E.; Reynolds, M. E.; Bolton, E.; Dwyer, J. G.; McIntosh, P. A.; Playfair, L. L.; Reid, J.;

Halliday, R. W.; O'Connor, F. J.; Warren, F. R. W.; Robb, J. J.; Paterson, R. K.; Mahood, A. E.; Patterson, W. E.; Patterson, W. R.; Wade, J. J.; Sutherland, E.; Dingwall, D. G.; Snyder, J. B.; Smith, S. H.; Cochrane, H.; Bell, A. M.; Stewart, J. R.; Taugher, W. J.; McLellan, D.; McDonald, D. J.; Templeton, C. P.; McKenley, A. G.; Cumming, A. W.; Sutherland, B.; Scott, R. A.; Gaudet, E. A.; Sandwith, B. A.; McCormick, J. P.; Young, D. M.; Publow, C. A.; Lowe, F. E.; Cockburn, G. L.; Spankie, W. E.; Shannon, S. S.; Lawler, C.; Nickle, W. C.

Senior Physiology—Playfair, L. L.; Reid, J.; Bolton, E.; Baker, A. E.; Patterson, W. R.; McDonald, D. J.; Wade, J. J.; Paterson, W. E.; Warren, J. R. W.; Snyder, J. B.; O'Connor, J. F.; Dingwall, D. G.; Sutherland, E.; Bell, A. M.; Dwyer, J. G.; Lawlor, C. A.; Cockburn, G. L.; Publow, C. A.; Spankie, W. E.; Taugher, W. J.; Smith, S. H.; Brander, J. F.; McKenley, A. G.; Templeton, C. P.; Paterson, R. K.; Young, D. M.; Hourigan, J. M.; Lowe, F. E.; Sutherland, B.; Sandwith, B. A.; Thompson, A. Y.; Cochrane, H.; Graham, J.; McCormick, J. P.; Austin, C. J.

Practical Chemistry—Dingwall, D. G.; Bolton, E.; Reid, J.; Patterson, W. E.; Sutherland, B.; Lowe, F. E.; Taugher, W. J.; Reid, E. J.; Cochrane, H.; Bell, A. M.; Cliff, G. F.; Stewart, J. R.; Baker, A. E.; Storey, G. S.; Snyder, J. B.; O'Connor, F. J.; Spankie, W. E.; Publow, C. A.; Templeton, C. P.; Playfair, L. L.; McDonald, D. J.; Cockburn, G. L.; Wade, J. J.; Brander, J. F.; Thompson, A. Y.; Lawlor, C. A.; Young, D. M.; McKenley, A. G.; McCormick, J. P.

Senior Chemistry—Bolton, E.; Baker, A. E.; Playfair, L. L.; Reid, J.; Stewart, J. R.; McKenley, A. G.; O'Connor, F. J.; Dwyer, J. G.; Lowe, F. E.; Lawlor, C. A.; Storey, G. E.; Brander, J. F.; McCormick, J. P.; McDonald, D. J.; Cliff, G. F.; Wade, J. J.; Spankie, W. E.; Bennett, H. J.; Bell, A. M.; Cockburn, G. L.; Smith, S. H.; Sutherland, B.; Patterson, W. E.; Cochrane, H.; Publow, C. A.; Laidlaw, C.; Rigney, M. G.; Kingsley, F.; Herald, J. G.; Mikaera, W. R.; Taugher, W. J.; Young, D. M.

Senior Materia Medica—McIntosh, P. A.; Mahood, A. E.; Smith, W. A.; Baker, A. E.; Sutherland, E.; Smith, B. A.; Bolton, E.; Reynolds, M. E.; McLellan, D.; Dwyer, J. G.; Patterson, W. R.; Warren, F. R. W.; Hogan, J. T.; Girvin, A. W.; Chant, J.; Consitt, E. C.; Wade, J. J.; Snyder, J. B.; Grimshaw, M. E.; Stewart, J. R.; McDonald, D. J.; Dingwall, D. G.; Moxley, C. R.; Sutherland, B.; Halliday, R. W.; Bell, A. M.; Publow, C. A.; Playfair, L. L.; Lowe, F. E.; Reid, J.; Warren, J. W.; Ferguson, J. Y.; Cochrane, H.; Eddington, C. M.; Patterson, W. E.; Lesses, M.; O'Connor, F. J.; Lawlor, C. A.; McKenley, A. G.; Keyes, S. J.; Code, J. H.; Gordon, G. D.; Robb, J. J.; Dear, C. B.; Shannon, S. S.; Patterson, R. K.; Gaudet, E. A.; Smith, S. H.; Bennett, H. J.; Young, D. M.; Hourigan, J. M.; Tennent, R. W.; Nickle, W. C.; McCormick, J. P.; Spankie, W. E.; Scott, R. A.; Rigney, M. G.; Maclachlan, A J.; Moore, H. E.; Cliff, G. F.; Sproule, E. W.; Cockburn, G. L.; Taugher, W. J.; Cumming, A. W.; Reid, G. R.

Histology—Reid, J.; Sutherland, E.; McCallum, S.; Smith, S. H.; Bolton, E.; Playfair, L. L.; Patterson, W. R.; Johnston, J.; Publow, C.; Graham, C. W.; Bell, A. M.; Cochrane, H.; Baker, A. E.; Taugher, W. J.; Dingwall, D. G.; Warren, F. R. W.; Patterson, W. E.; Sutherland, B.; Lawlor, C. A.; McDonald, D. J.; Snyder, F. B.; Shannon, S. S.; O'Connor, F. J.; Thompson, A. Y.; Cockburn, G. L.; Wade, J. J.; Sandwith, B. A.; Twitchell, E. G.; Templeton, C. P.; McCormick, J. P.; Paterson, R. K.; Brander, J. F.; Austin, C. J.; Young, D. M.; McFadyen, J. Y.; Kingsley, F.; Spankie, W. E.; Rigney, M. G.; Cliff, G. F.; Little, T.

Third Year.

Junior Pathology—Williamson, H. J.; Lesses, M.; Spooner, A. C.; Boyce, H. A.; Sparks, J. F.; McCallum, S.; Dear, C. B.; Hogan, J. T.; McKinnon, D. L.; Smith, W. A.; Grimshaw, M. E.; Smith, B. A.; Warren, F. R. W.; Hunt, A. H.; Girvin, A. W.; Reid, G. R.; Chant, J.; Macgillivray, T. D.; Halladay, R. W.; Sproule, E. W.; Ferguson, J. Y.; Robb, W. M.; Code, J. H.; Locke, M.; Johnston, J.; Gaudet, E. A.; Graham, C. W.; Weaver, H. V.; Gordon, G. D.; Bennett, H. J.; Keyes, S. J.; Moxley, C. R.; Consitt, E. C.; McMillan, A. D.; Warren, J. W.; Dudley, W. H.; Nickle, W. C.; Hourigan, J. M.

Junior Practice of Medicine—Williamson, H. J.; Bennett, H. J.; Warren, F. R. W.; Spooner, A. C.; Hogan, J. T.; Dwyer, J. G.; Dear, C. B.; Sparks, J. F; Grimshaw, M. E.; Keyes, S. J.; Halladay, R. W.; Warren, J. W.; Boyce, H. A.; Lesses, M.; Macgillivray, T. D.; Robb, W. M.; McKinnon, D. L.; Smith, B. A.; Nickle, W. C.; Smith, W. A.; McMillan, A. D.; Chant, J.; McIntosh, P. A.; Hourigan, J. M.; Haycock, G. G.; Geddes, W. J.; Robb, J. J.; Maclachlan, A. J.; Sproule, E. W.; Locke, M.; Ferguson, J. Y.; Moxley, C. R.; Weaver, H. V.; Tennent, R. W.; Girvin, A. W.; Gordon, G. D.; Gaudet, E. A.; Consitt, E. C.; Mahood, A. E.; Dudley, W. H.; Code, J. H.; Reynolds, M. E.; Hunt, A. H.; Reid, G. R.

Medical Jurisprudence—Williamson, H. J.; Boyce, H. A.; Spooner, A. C.; Macgillivray, T. D.; Sparks, J. F.; Lesses, M.; Smith, B. A.; Hogan, J. T.; Sutherland, E.; Paterson, R. K.; Warren, J. W.; Smith, W. A.; Tennent, R. W.; Ferguson, J. Y.; Locke, M.; McKinnon, D. L.; Dear, C. B.; McIntosh, P. A.; Hunt, A. H.; Bailey, R. W.; Dingwall, D. G.; Wagar, C. M.; Keyes, S. J.; Bennett, H. J.; Weaver, H. V.;

Halladay, R. W.; Grimshaw, M. E.; Sproule, E. W.; Consitt, E. C.; Cumming. A. W.; Chant, J.; Code, J. H.; Nickle, W. C.; Graham, C. W.; Girvin, A. W.; Robb, W. M.; Driscoll, A. C.; Moxley, C. R.; Reid, G. R.; Gaudet, E. A.; Dudley, W. H.; Johnston, J.; McMillan, A. D.; Kinkead, E. C.; Thompson, A. Y.; Mikaera, W. R.; Hourigan, J. M.; Gordon, G. D.; Maclachlan, A. J.; Nicolle, F. R.; Moore, H. E.; Stewart, J. A.

Sanitary Science—Sparks, J. F.; Boyce, H. A.; Spooner, A. C.; Williamson, H. J.; Lesses, M.; Patterson, R. K.; McKinnon, D. L.; Sproule, E. W.; Locke, M.; Haycock, G. G.; Smith, B. A.; Sutherland, E.; Robb, J. J.; Robb, W. M.; Smith, W. A.; Dear, C. B.; Ferguson, J. Y.; Code, J. H.; Warren, J. W.; Hogan, J. T.; Mahood, A. E.; Bennett, H. J.; Consitt, E. C.; Weaver, H. V.; Reid, Miss V.; Gordon, G. D.; Macgillivray, T. D.; Hunt, A. H.; Hourigan, J. M.; Grimshaw, M. E.; Chant, J.; Reynolds, M. E.; Moxley, C. R.; Gillespie, J. J.; Cumming, A. W.; Reid, G. R.; Girvin, A. W.; Keyes, S. J.; Halladay, R. W.; Tennent, R. W.; Maclachlan, A. J.; Nicolle, F. R.; Geddes, W. J.; Moore, H. E.; Nickle, W. C.; Wagar, C. M.; Kinkead, E. C.; Bailey, R. W.

Junior Obstetrics—Boyce, H. A.; Girvin, A.; Spooner, A. C.; Robb, W. M.; Smith, B. A.; Sparks, J. F.; Warren, J. W.; McMillan, A. D.; Bennett, H. J.; Lesses, M.; Halladay, R. W.; Grimshaw, M. E.; McKinnon, D. L.; Sproule, F. W.; Weaver, H. V.; Smith, W. A.; Hourigan, J. M.; Hogan, J. T.; Chant, J.; Code, J. H.; Consitt, E. C.; McIntosh, P. A.; Keyes, S. J.; Macgillivray, T. D.; Dear, C. B.; Reynolds, M. E.; Robb, J. J.; Mahood, A. E.; Gordon, G. D.; Ferguson, J. Y.; Graham, C. W.; Williamson, H. J.; Moxley, C. R.; Tennent, R. W.; Dudley, W. H.; Nickle, W. C.; Locke, M.; Reid, G. R.; Geddes, W. J.; Stewart, J. A.; Maclachlan, A. J.; Hunt, A. H.; Wagar, C. M.; Gaudet, E. A.

Junior Medical and Surgical Anatomy—Williamson, H. J.; Lesses, M.; Reynolds, M. E.; Spooner, A. C.; Sparks, J. F.; McMillan, A. D.; Smith, W. A.; Mahood, A. E.; Robb, J. J.; Macgillivray, T. D.; Robb, W. M.; Locke, M.; Halladay, R. W.; Hogan, J. T.; Grimshaw, M. E.; McKinnon, D. L.; Boyce, H. A.; Ferguson, J. Y.; Dear, C. B.; Smith, B. A.; Moxley, C. R.; Consitt, E. C.; Girvin, A. W.; Code, J. H.; McIntosh, P. A.; Warren, J. W.; Gaudet, E. A.; Gordon, G. D.; Keyes, S. J.; Bennett, H. J.; Hourigan, J. M.; Chant, J.; Dudley, W. H.; Hunt, A. H.; Sproule, F. W.; Nickle, W. C.; Tennent, R. W.; Reid, G. R.; Weaver, H. V.

Junior Surgery—Dear, C. B.; Boyce, H. A.; Smith, W. A.; Spooner, A. C.; Williamson, H. J., equal; Hogan, J. T.; Sparks, J. F.; Mahood, A. E.; Macgillivray, T. D.; Reid, G. R.; McMillan, A. D.; Lesses, M.; McKinnon, D. L.; Robb,

W. M.; Halladay, R. N.; Hunt, A. H.; Bennett, H. J.; Dwyer, J. G.; Robb, J. J.; Grimshaw, M. E.; Keyes, S. J.; Ferguson, J. Y.; Warren, J. W.; Weaver, H. V.; Dudley, W. H.; Chant, J.; Code, J. H.; Maclachlan, A. J.; McIntosh, P. A.; Stewart, J. A.; Wagar, C. M.; Locke, M.; Nickle, W. C.; Girvin, A. W.; Sproule, E. W.; Moxley, C. R.

Fourth Year.

Bacteriology—Bromley, J. E.; Graham, J. A.; Reid, Miss V.

Clinical Surgery—Tandy, H.; Gibson, W.; Singleton, A. H.; Carruthers, J. S.; Lee, R. A.; Leach, G. C.; Robinson, E.; Reid, Miss V.; Branscombe, M. E.; Falkner, A. D.; Costello, T. J.; Connolly, A. E.; Hoppin, L. W.; Young, J. M.; Munroe, A. T.; Driscoll, A. C.; McGonigle, M.; VanNess, C. S.; DeLong, E. W.; Gallivan, J. V.; Caskey, J. C.; Gray, T. J.; Ferguson, A. A.; Goodfellow, J. R.; Williams, E. J.; Brown, W. C.; Rutledge, S. H.; Larocque, J.; Kinkead, E. C.; Lalonde, J. A.; Corrigan, J. A.; Smith, N.; Presault, J. W.; Bromley, J. E.; Gillespie, J. J.; Graham, J. A.; Pennock, N. I.; Bailey, R. W.; Geddes, W. J.; Kingsley, F.

Clinical Medicine—Carruthers, J. S.; Gibson, W.; McCullough, F. C.; Singleton, A. H.; Tandy, H.; Hoppin, L. W.; Kinkead, E. C.; Lee, R. A.; Bailey, R. W.; McGonigle, M.; Leach, G. C.; Branscombe, M. E.; Corrigan, J. A.; Costello, T. J.; Ferguson, A. A.; Reid, Miss V.; Robinson, E. J.; Williams, E. J.; Young, J. M.; DeLong, E. W.; Rutledge, S. H.; VanNess, C. S.; Gallivan, J. V.; Goodfellow, J. R.; McDonald, H. A.; Caskey, J. C.; Connolly, A. K.; Lalonde, J. A.; Pennock, N. I.; Falkner, A. D.; Munroe, A. T.; Larocque, J.; Gray, T. J.; Smith, N.; Gillespie, J. J.; Graham, J. A.; Scott, R. H.; Brown, W. C.; Driscoll, A. C.

Senior Practice of Medicine—Singleton, A. H.; Gibson, W.; Smith, N.; Young, J. M.; McDonald, H. A.; Munroe, A. T.; McCullough, F. C.; Reid, Miss V.; McGonigle, M.; Gray, T. J.; Robinson, E. J.; Leach, G. C.; Tandy, H.; DeLong, E. W.; Caskey, J. C.; Goodfellow, J. R.; Costello, T. J.; Williams, E. J. F.; Lee, R. A.; Ferguson, A. A.; Brown, W. C.; Lalonde, J. A.; Hoppin, L. W.; Gillespie, J. J.; Falkner, A. B.; Larocque, J.; Gallivan, J. V.; Rutledge, S. H.; Kinkead, E. C.; VanNess, C. S.; Carruthers, J. S.; Connolly, A. K.; Bailey, R. W.; Branscombe, M. E.; Pennock, N. I.; Driscoll, A. C.

Senior Pathology—Tandy, H.; Singleton, A. H.; Gibson, W.; McCullough, F. C.; Munroe, A. T.; Reid, Miss V.; McGonigle, M.; Goodfellow, J. R.; Rutledge, S. H.; Gallivan, J. V.; Young, J. M.; Connolly, A. K.; Lalonde, A. J.; Lee, R. A.; Smith, N.; Carruthers, J. S.; Costello, T J.; Hoppin, L. W.; Robinson, E. J.; Ferguson, A. A.; Williams, E. J.; Brown, W. C.; Branscombe, M. E.; Kingsley, F.; Caskey, J. C.; VanNess, C. S.; Ferguson, E. A.; Corrigan, J. A.; Driscoll, A. C.; Leach, G. C.; Gray, T. J.; McDonald, H. A.; Pennock, N. I.; DeLong, E. W.; Bailey, R. W.; Falkner, A. D.; Gillespie, J. J.; Larocque, J.; Presault, J. W.; Kinkead, E. C.

Senior Medical and Surgical Anatomy—Costello, T. J.; McGonigle, M.; Singleton, A. H.; Gibson, W.; Tandy, H.; Munroe, A. T.; Young, J. M.; Connolly, A. K.; McDonald, H. A.; McCullough, F. C.; Carruthers, J. S.; Goodfellow, J. R.; Rutledge, S. H.; Lalonde, J. A.; Gray, T. J.; VanNess, C. S.; DeLong, E. W.; Caskey, J. C.; Lee, R. A.; Williams, E. J.; Gallivan, J. V.; Larocque, J.; Hoppin, L. W.; Leach, G. C.; Branscombe, M. E.; Pennock, N. I.; Corrigan, J. A.; Falkner, A. D.; Reid, Miss V.; Gillespie, J. J.; Ferguson, A. A.; Austin, C. J.; Geddes, W. J.; Ferguson, E. A.

Eye, Ear, Nose and Throat—Robinson, E. J.; Kinkead, E. C.; Gibson, W.; Connolly, A. K.; McCullough, F. C.; Lalonde, J. A.; Branscombe, M. E.; Singleton, A. H.; McDonald, H. A.; Smith, N.; McGonigle, M.; Bailey, R. W.; Tandy, H.; Leach, G. C.; Costello, T. J.; Gallivan, J. V.; Brown, W. C.; Goodfellow, J. R.; Caskey, J. C.; Gillespie, J. J.; Rutledge, S. H.; DeLong, E. W.; Hoppin, L. W.; Reid, Miss V.; Lavell, W. H.; Munroe, A. T.; Lee, R. A.; Carruthers, J. S.; Pennock, N. I.; VanNess, C. S.; Ferguson, A. A.; Young, J. M.; Falkner, A. D.; Williams, E. J.; Bromley, J. E.; Driscoll, A. C.; Larocque, J.; Gray, T. J.; Presault, J. W.

Senior Obstetrics—Singleton, A. H.; Tandy, H.; Gibson, W.; Leach, G. C.; Bailey, R. W.; Lee, R. A.; Goodfellow, J. R.; Robinson, E. J.; Costello, T. J.; Reid, Miss V.; Falkner, A. D.; Carruthers, J. S.; Gray, T. J.; McCullough, F. C.; Brown, W. C.; Lalonde, J. A.; Hoppin, L. W.; Munroe, A. T.; Kinkead, E. C.; Gillespie, J. J.; Ferguson, A. A.; Caskey, J. C.; Driscoll, A. C.; McDonald, H. A.; Young, J. M.; Connolly, A. K.; Williams, E. J.; Lavell, W. H.; VanNess, C. S.; Gallivan, J. V.; Pennock, N. I.; Bromley, J. E.; Rutledge, S. H.; Presault, J. W.; DeLong, E. W.; Smith, N.; McGonigle, M.; Corrigan, J. A.; Branscombe, M. E.; Geddes, W. J.

Senior Surgery—Gibson, William; Singleton, A. H.; Hoppin, L. W.; Tandy, H.; Robinson, E. J.; Gallivan, J. V.; Branscombe, M. E.; McDonald, H. A.; Ferguson, A. A.; Caskey, J. C.; McCullough, F. C.; Leach, G. C.; Gray, T. J.; Munroe, A. T.; Falkner, A. D.; Costello, T. J.; Smith, N.; Rutledge, S. H.; Goodfellow, J. R.; Presault, J. W.; Reid, Miss V.; Connolly, A. K.; Larocque, J.; Driscoll, A. C.; Lee, R. A.; Carruthers, J. S.; Lalonde, A. J.; Bailey, R. W.; Gillespie, J. J.; McGonigle, M.; DeLong, E. W.; Kingsley, F.; Williams, E. J.; Kinkead, F. C.; Scott, R. H.; Brown, W. C.; VanNess, C. S.; Young, J. M.; Pennock, N. I.

LIST OF STUDENTS.

SESSION 1903-4.

IN ARTS.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Aikin, J. A.	6	Hamilton	Orangeville H. S.
Allen, J.	4	Napanee	Napanee C. I.
Amoss, H. E.	3	Aylmer West	Aylmer C. I.
Anderson, J. A.	1	Rossmore	Albert Coll., Belleville.
Anderson, T. H. P.	1	Chisholm	Aurora H. S.
Andrews, D.	4	West Lorne	Ridgetown C. I.
Anglin, S. M.	4	Battersea	Albert Coll., Belleville.
Anning, N. H.	3	Oxmead	Meaford H. S.
Arthur, Leona M.	3	Consecon	Picton H. S.
Arthur, Nellie	3	Consecon	Picton H. S.
Asselstine, E. B.	4	Wilton	Napanee C. I.
Asselstine, Lizzie	4	Asselstine, P.O.	Kingston C. I.
Asselstine, O.	2	Wilton	Napanee C. I.
Atwater, H. E.	1	Baddeck, N.S.	Baddeck H. S.
Austin, Bessie	2	Waterford	Waterford H. S.
Ayers, M. H.	4	Beamsville	Beamsville H. S.
Aylesworth, Mabel	4	Bath	Kingston C. I.
Bailey, W. L.	3	Gravenhurst	Gravenhurst H. S.
Baker, Sarah J.	2	Napanee	Napanee C. I.
Baird, A. W.	2	Brockville	Brockville C. I.
Ball, Kathleen H.	3	Beamsville	St. Catharines C. I.
Barker, E. A.	1	Forfar	Forfar H. S.
Batten, Georgie	2	Barriefield	Kingston C. I.
Beecroft, W. A.	1	Woodville	Lindsay C. I.
Beggs, W.	3	Hallville	Morrisburg C. I.
Belfry, Effie	2	Hamilton	Owen Sound C. I.
Bell, F. C.	3	Winnipeg	Manitoba Coll., Win'pg.
Bell, L. E.	1	Winchester Spr'gs.	Morrisburg C. I.
Berney, Laura	3	Kingston	Athens H. S.
Bertram, Jean K.	1	Dundas	Dundas H. S.
Beveridge, R. W.	4	Port Elmsley	Smith's Falls H. S.
Birch, Beatrice D.	5	Kingston	Kingston C. I.
Black, B. S.	4	Kingston	Kingston C. I.
Black, Jean B.	5	Hamilton	Hamilton C. I.
Black, N. F.	3	Port Colborne	Uxbridge H. S.
Bluett, C.	1	Crediton	Forest H. S.
Boak, A. E.	2	Kingston	Kingston C. I.
Boland, W. A.	4	Killaloe Station	Renfrew H. S.
Bongard, Edna	2	Picton	Picton H. S.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Borley, H. D.	6		Strathroy H. S.
Bothwell, A. M.	3	Perth	Perth C. I.
Bowen, N. L.	1	Kingston	Kingston C. I.
Boyd, Agnes	6	Kingston	Kingston C. I.
Branion, S. J. A.	3	Wolseley, Assa.	St. Mary's C. I.
Brown, G. A.	4	Oak Grove	Renfrew H. S.
Brown, H. W.	4	Berlin	Harriston H. S.
Brown, P. W.	5	Sydenham	Smith's Falls H. S.
Brownlee, W. F.	2	McDonald's Cor's.	Perth C. I.
Brydon, R.	5	Oustic	Guelph C. I.
Bryson, Isabel S.	5	Ottawa	Ottawa Ladies' College.
Buchanan, J. D.	3	Vancouver, B. C.	Brantford C. I.
Buchanan, Mabel A.	4	Lanark	Lanark H. S.
Burns, C. J.	1	Cannington	Lindsay C. I.
Byers, J. C.	1	Eganville	Renfrew C. I.
Burns, Olive M.	2	Kingston	Kingston C. I.
Caldwell, O. Max	4	Lanark	Lanark P. S.
Calvin, J. D.	4	Garden Island	Kingston C. I.
Cameron, A. G.	2	Montague, P.E.I.	P. W. Coll., Charlottetown, P.E.I.
Cameron, D. R.	3	Lancaster	Alexandria H. S.
Cameron, J. S.	7	Ingersoll	
Campbell, D.	4	Eganville	Renfrew H. S.
Campbell, A. L.	4	Fergus	
Campbell, N. W.		Durham	
Carefoot, G. A.	4	Newmarket	Collingwood C. I.
Carruthers, W. T.	2	Brockville	Brockville C. I.
Carson, Florence I.	1	Port Hope	Port Hope H. S.
Cathro, Elizabeth	3	Lindsay	Lindsay C. I.
Cattanach, Jessie S.	4	Williamstown	Williamstown H. S.
Chambers, L. P.	4	Woodstock	Robert Coll., Constantinople.
Chandler, Pearl	1	Norwood	Norwood H. S.
Chant, W.	3	Frankville	Brockville C. I.
Chapman, W. F.	2	Toronto	
Charlesworth, J. W.	5	Guelph	Private Tuition.
Chatterton, Anna	1	Wolfe Island	Kingston C. I.
Clark, Grace	4	London	Kingston C. I.
Clarke, H. J.	3	Belleville	Belleville H. S.
Clarke, T. E.	2	Ottawa	Harbord St. C.I., Tor'to.
Clancy, G. S.	1	Stella	Newburgh H. S.
Claxton, W. A.	2	Verona	Sydenham H. S.
Clement, W. J.	1	Kelowna, B.C.	
Clifford, Margaret	1	St. Mary's	Stratford C. I.
Closs, F. D.	5	Norwood	Aylmer C. I.
Clow, C. N.	5	(Deceased.)	Brockville C. I.

NAME.	Year of Atten-dance.	Summer Residence.	Where Educated.
Clugston, J. F.	1	Epping	Meaford H. S.
Coates, E. W. S.	3	Rowena	
Code, S. W. A.	2	Kingston	Carleton Place H. S.
Colquhoun, A. D.	2	Ottawa	
Connor, Grace L.	4	Kingston	Kingston C. I.
Coombes, J. E.	2	Hanover	Goderich C. I.
Coon, H. J.	2	Belleville	Belleville H. S.
Cooper, A. B.	4	Chatsworth	
Cornett, A. D.	1	Kingston	Kingston C. I.
Cornett, W. F.	2	Kingston	Gananoque H. S.
Cram, W. S.	2	Carleton Place	Carleton Place H. S.
Crawford, C. M.	3	Kingston	Kingston C. I.
Crawford, Pearl E.	1	Kingston	Kingston C. I.
Curtin, C. J.	4	Brockville	Brockville C. I.
Dadson, Helena	5	Union	St. Thomas C. I.
Dark, T. A.	4	Wicklow	Cobourg C. I.
Darroch, W. F.	5	Brantford	Harriston H. S.
Denny, J. D.	2	Ottawa	Peterboro C. I.
Deutschmann, F. W.	3	Orillia	Harriston H. S.
Dickson, Zilpha H.	2	Woodstock	Woodstock C. I.
Dingwall, R.	1	Cornwall	Cornwall H. S.
Donald, Helen	2	Belleville	Belleville H. S.
Donald, Jean	1	Belleville	Belleville H. S.
Donevan, F. J.	1	Gananoque	Gananoque H. S.
Down, G. W.	3	Aberfoyle	Charing National.
Drysdale, F. W.	1	Lanark	Congregational College, Montreal.
Duff, K. Isobel	4	Otonabee	Peterboro C. I.
Duncan, T. S.	4	Westport	Athens H. S.
Dunham, C. S.	1	Toledo	Athens H. S.
Dunlop, Florence M.	2	Kingston	Kingston C. I.
Dunlop, H.	3	Kingston	Kingston C. I.
Dunlop, J. E. S.	4	Ventnor	Kemptville H. S.
Dwyer, W. O.	2	Kingston	Kingston C. I.
Edwards, J. J.	2	Burritt's Rapids	Lanark P. S.
Elder, Hosie	4	Elder's Mills	Weston H. S.
Elliott, Emily M.	2	Agincourt	Markham H. S.
Ellis, D. S.	2	Kingston	Kingston C. I.
Ellis, R. J.	1	Ellisville	Athens H. S.
English, J. W.	4	Mimico	
Errett, Bessie D.	4	Brantford	Chatham C. I.
Ettinger, J. G.	4	Kingston	Listowel H. S.
Evans, J. J.	3	Toronto	Walkerton H. S.
Everts, H. A.	2	Lyn	Brockville C. I.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Fairlie, H. W.	1	St. Davids	Niagara Falls C. I.
Fairlie, J.	5	Kingston	Brockville C. I.
Farnham, M. M.	2	Prescott	Prescott H. S.
Fenwick, Flo. M.	3	Kingston	Kingston C. I.
Ferguson, J.	5	Fergus	London C. I.
Ferguson, J. D.	1	Carleton Place	Carleton Place C. I.
Ferguson, T. R.	4	Wiarton	Wiarton H. S.
Ferguson, W.	2	McLaren's Depot	Perth C. I.
Fleming, A. G.	4	Craigleith	Collingwood C. I.
Fleming, W. S.	5	Franktown	Smith's Falls H. S.
Farwell, W. G.	2	Portsmouth, N. H.	Upper Canada College.
Feasby, W. J.	2	Washago	Harbord St. C.I., Tor'to
Fetterly, H. B.	4	Winchester	Morrisburg C. I.
Fife, W. E.	3	Regina, N. W. T.	Owen Sound C. I.
Fifield, R. J.	4	Medi'ne Hat, Assa.	Athens H. S.
Finlayson, D. K.	3	Grand River, N.S.	Grand River P. S.
Finn, J. P.	3	Plantagenet	Chatham C. I.
Flynn, T. A.	4	Morrisburg	Morrisburg C. I.
Fockler, C. E.	3	Ballantrae	Chatham H. S.
Fokes, A. F.	1	Kingston	Kingston C. I.
Forrester, J. W.	1	Balderson	Athens H. S.
Froats, J.	2	Finch	Morrisburg C. I.
Froats, W. C.	4	Morrisburg	Morrisburg C. I.
Fuller, E. L.	1	Erin	London C. I.
Galbraith, T. M.	4	Gananoque	Meaford H. S.
Gibson, A. H.	2	Douglas	Perth C. I.
Gibson, A. S.	4	Kingston	Kingston C. I.
Gibson, Ethel B.	5	Kingston	Kingston C. I.
Gillies, D. A.	3	Carleton Place	Carleton Place H. S.
Gilmour, A.	2	Greenock	Walkerton H. S.
Goodfellow, T. J.	1	Parham	Sydenham H. S.
Gordon, Wilhelmina.	3	Kingston	Dalhousie, Halifax, N.S.
Graham, C. W.	5	Kingston	Kingston C. I.
Graham, Violet B.	3	Wallbridge	
Grass, Margaret F.	3	Kingston	Kingston C. I.
Greenlees, Elva	2	Kingston	Kingston C. I.
Grove, W. G.	3	Ringwood	Markham H. S.
Grover, J. I.	1	Kingston	Trinity College School.
Graham, J. H.	3	(Deceased.)	Kemptville H. S.
Guy. R. D.	4	Camden East	Newburgh H. S.
Hadden, A. T.	4	Toronto	Markham H. S.
Hagan, J. W.	4	Walsingham Ctr.	Brantford C. I.
Hainer, F. L.	4	Stouffville	Markham H. S.
Hall, T. F.	4	Cobourg	Cobourg C. I.
Hamilton, W. J.	3	Picton	Cobourg C. I.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Hallett, W. J.	2	Barrie	Self taught.
Hanahoe, Agnes G.	3	Ottawa	Lindsay C. I.
Hanna, W. E.	2	Laurier	Harbord St., C.I., Tor'to
Harpell, T. W.	4	Inverary	Inverary H. S.
Harrison, F. W.	3	Richmond Hill	Richmond H. S.
Hawes, Ida E.	3	Pasadena, Cal.	St. Thomas C. I.
Hay, W. M.	3	Paisley	Paisley H. S.
Hendry, Annie S.	5	Hamilton	Hamilton.
Hill, J.	2	Harrington	St. Mary's C. I.
Hiscock, May B.	1	Kingston	Kingston C. I.
Houston, J. A.	1	Belleville	Albert Coll., Belleville.
Hiscock, Reta	4	Kingston	Kingston C. I.
Hughes, Ada E.	2	Kingston	Kingston C. I.
Hudson, C. K.	3	Shoal Hbr.	St. Johns Meth. Coll.
Hughes, R. A.	2	Kingston	Kingston C. I.
Hunt, Sara A.	4	Pakenham	Almonte H. S.
Hutchison, J. H.	6	Brechin	Orillia H. S.
Hutchison, R. A.	4	Walsingham Ctr.	Aylmer C. I.
Jackson, Fannie A.	4	Lindsay	Lindsay C. I.
Jordan, D.	1	Kingston	Kingston C. I.
Jordan, T.	2	Kingston	Hillcroft Academy.
Jones, F. A.	4	Ottawa	Woodstock and Brantford C. I.
Jones, J. E.	5	Mattawa	Collingwood C. I.
Karr, W. J.	4	Sarnia	Forest H. S.
Kennedy, F. C.	2	Westport	Athens H. S.
Kennedy, W. A.	4	Stratford	Stratford C. I.
Kennedy, W. W.	1	Westport	Athens H. S.
Kerr, T. R.	4	Portsmouth	Kingston C. I.
Keys, S. J.	4	Cornwall	Morrisburg C. I.
Kidd, A. J.	4	Prospect	Carleton Place H. S.
Kidd, G. E.	2	Prospect	Kemptville H. S.
Kilmer, E. E. C.	4	Aylmer	Toronto University.
Kingston, H. R.	2	Picton	Picton H. S.
Knapp, E.	3	Battersea	Sydenham H. S.
Knight, W.	3	Belleville	
Knox, R. H.	1	Leamington	St. Mary's C. I.
Kouber, V. A.	1	(Deceased.)	Napanee C. I.
Laidlaw, R.	2	Georgetown	Owen Sound C. I.
Laing, A.	1	Baltimore	Port Hope C. I.
Laing, Maybelle	4	Kingston	Kingston C. I.
Landman, I.	3	Montreal	Hughes High, Cinnci'ti.
Law, C. E. L. H.	3	Solina	Oshawa H. S.
Laird, W. L.	3	Kingston	Kingston C. I.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Lawrence, C. W....	2	Smyrna, Turkey..	Leicester Academy, Massachusetts.
LeSueur, E. Daisy..	4	Ottawa..	Ottawa C. I.
Leitch, A..	5	Strathroy..	Strathroy C. I.
Letherland, A.... ..	1	Elginburg..	Kingston C. I.
Lindsay, M. A. F...	4	Sydenham, Eng...	College of God's Gift, Dulwich, Eng.
Lindsay, Muriel.. ..	4	Portsmouth.. .. .	Kingston C. I.
Losee, J. R..	4	Collins' Bay	Kingston C. I.
Low, Constance M..	2	Kingston..	Kingston C. I.
Mabee, H. C..	3	Odessa..	Kingston C. I.
Madill, A. S..	2	Kingston..	Kingston C. I.
Mahood, A. E.. ...	4	Kingston	Kingston C. I.
Malcolm, L..	3	Stratford..	Stratford C. I.
Mallen, M. L..	3	Kingston	Regiopolis Coll., Kingston.
Malloch, Eleanor E.	4	Hamilton..	Hamilton C. I.
Marshall, D. H. J...	4	Camden	St. Catharines C. I.
Marshall, Laura E..	2	Fernie, B. C.. ...	Owen Sound C. I.
May, H. P..	3	Little Current.. ..	Meaford H. S.
Meldrum, G. E.. ..	4	Ottawa..	Ottawa C. I.
Merritt, Mary H....	1	Ottawa..	Harbord St. C.I., Tor'to
Michell, Kathleen...	3	Perth..	Perth C. I.
Might, L..	4	Kingston	Owen Sound and Vankleek Hill.
Miller, Cora..	3	Aylmer..	Aylmer C. I.
Miller, F..	4	Avening	Collingwood C. I.
Miller, J. H..	5	....	Collingwood C. I.
Mills, Frances W...	1	Kingston..	Kingston C. I.
Moffatt, W. J..	2	Seaforth..	Owen Sound C. I.
Montgomery, A. R..	2	Kingston..	Kingston C. I.
Montgomery, Fan. L.	4	Kingston	Kingston C. I.
Montgomery, I. A...	2	Pleasant Valley ..	Iroquois H. S.
Montgomery, W. H.	4	De Grasse, N.Y...	Bowmanville H. S.
Moore, Irene..	1	Stirling. Alta.. ..	Meaford H. S.
Moore, Margret B..	4	Iroquois..	Iroquois H. S.
Moore, W..	8	Carleton Place ...	Carleton Place H. S.
Morden, D. N.. ...	3	Kingston..	Picton H. S.
Moyer, H. H..	2	Van Vlack..	Barrie C. I.
Mulloy, L. W. R....	2	Winchester.. .. .	Morrisburg C. I.
Munro, Maggie B...	4	Iroquois..	Iroquois H. S.
Munro, M. F.. .. .	4	Lancaster..	Williamstown H. S.
Murphy, G. B.. ...	4	Brockville..	Brockville C. I.
Murphy, W. E... ..	6	Rosemont..	Collingwood H. S.
McCallum, J. F.. ..	1	Brewer's Mills ..	Gananoque H. S.
McConkey, Eva F...	2	Brockville..	Brockville C. I.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
McConkey, Kate M. R	4	Brockville	Brockville C. I.
McCormack, Irene	4	Kingston	Kingston C. I.
McCracken, H. R.	3	Toronto	Jameson Avenue C. I., Toronto.
McCrimmon, J. R.	1	Vankleek Hill	Private Tuition.
McCuaig, H. D.	2	Dalston	Barrie C. I.
McCutcheon, J.	4	St. Thomas	Listowel H. S.
McDermott, J. J.	3	Kingston	Kingston C. I.
MacDonald, A.	2	Wellman's Cor's	Belleville H. S.
Macdonald, J.	3	Deseronto	Brockville C. I.
MacDonald, J. M.	5	Orangeville	Orangeville H. S.
MacDonald, N. S.	1	Toronto	Bowmanville H. S.
McDonald, R. J.	2	Golspie	Woodstock C. I.
Macdonnell, Eleanor.	1	Kingston	Kingston C. I.
Macdonnell, J. M.	4	Kingston	Kingston C. I.
McDougall, L. M.	4	Brockville	
McEachern, G. D.	4	Desbarats	Morrisburg C. I.
McEachern, J. G.	1	Greensville P. O.	Guelph C. I.
McEachern, Jessie	1	Garryowen	
McEachran, Mary	3	Strathburn	Glencoe H. S.
Macfarlane, Annie S.	1	Franktown	Carleton Place H. S.
Macfarlane, Chris. S.	2	Franktown	Carleton Place H. S.
McGill, A. B.	3	Oakville	Lindsay C. I.
Macgillivray, Flo.	3	Kingston	Kingston C. I.
MacGillivray, J. M.	1	Picton	Picton H. S.
McGlennon, A.	2	Colborne	Colborne H. S.
Macgregor, Annie K.	4	Almonte	Almonte H. S.
McGregor, D. A.	2	Tiverton	Kincardine H. S.
Macgregor, Grace	4	Almonte	Almonte H. S.
McIlroy, C.	2	Poland	Perth C. I.
MacInnes, G.	1	Vankleek Hill	Vankleek Hill H. S.
McIntosh, N.	1	Durham	Walkerton H. S.
McIntosh, W. D.	1	North Bruce	Port Elgin H. S.
MacKay, J. M.	4	Kintore	London C. I.
McKee, W. W.	3	Stroud	Harbord C. I., Toronto.
McKellar, Kate	4	Martintown	Cornwall H. S.
MacKenzie, H. M'de.	3	Gananoque	Gananoque H. S.
McKenzie, M.	2	Scotstown	Alexandria H. S.
Mackenzie, W. F.	2	St. Thomas	St. Thomas C. I.
McKim, C. W.	2	Winnipeg	Wycliffe College.
Mackie, G. A.	2	Kingston	Oshawa H. S.
MacKinnon, Alex. D.	2	Ottawa	Ottawa C. I.
MacKinnon, Arch. D.	3	Lake Ainslie, N.S.	Boston H. S.
MacKinnon, G. W.	1	Beaverton	Harbord St. C.I., Tor'to
MacKinnon, J. D.	6	E. Lake Ainslie, N. S.	
Mackintosh, Helen C	1	Madoc	Madoc H. S., Galt C. I.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
McLean, Marion	2	London	London C. I.
McLean, R. A.	5	Smith's Falls	Smith's Falls H. S.
McLellan, D.	4	Forester's Falls	Pembroke H. S.
MacLennan, C. Lillie.	2	Port Hope	Port Hope H. S.
McLeod, K. C.	4	Golspie	Woodstock H. S.
McLeod, Lola	4	Kingston	Kingston C. I.
McLeod, N.	3	Dunvegan	Alexandria H. S.
McMillan, G.		Wiarton	Stratford C. I.
McMichael, Mary W.	1	Williamsville	Kingston C. I.
McNabb, J.	2	Cumming's Bridge.	Lindsay and Ottawa C.I.
McPherson, Edythe.	1	Prescott	Prescott H. S.
MacQuarrie, W. J.	4	West Bay, C.B.	Private Tuition.
McRae, Caroline J.	1	Perth	Kingston C. I.
Nesbitt, Mabel E.	1	Kingston	Kingston C. I.
Nicol, J. L.	2	Varency	Port Dover H. S.
Nicol, Margaret	2	Napanee	Ingersoll H. S.
Nichol, C. O.	9	Hamilton	Hamilton C. I.
Norton, T. W. F.	4	Listowel	Stratford C. I.
Ockley, Beatrice	2	Kingston	Kingston C. I.
O'Connell, Marg. E.	3	Peterboro	Peterboro C. I.
Odell, Lena	2	Belmont	Brockville C. I.
O'Donnell, Florence.	3	Kingston	Kingston C. I.
Orr, W. J.	2	Kingston	Kingston C. I.
Osgoode, J. A.	1	St. George	St. Thomas C. I.
Ostrom, Ethel L. B.	4	Alexandria	Alexandria H. S.
Oswald, P. A.	2	Chicago, Ill.	St. Mary's College.
Paterson, R. K.	1	Renfrew	Renfrew H. S.
Patterson, Hattie	2	Athens	Brockville C. I.
Payne, E. Clara	1	Portsmouth	Kingston C. I.
Pearce, W. R.	3	Wallacetown	Dutton H. S.
Penman, A. G.	3	Kemnay, Man.	Pictou Academy.
Penney, Lizzie K.	2	St. Thomas	London C. I.
Pentland, G. E.	5	Stratford	Collingwood C. I.
Pettit, L. J.	4	St. Thomas	St. Thomas C. I.
Pidgeon, E. L.	2	Markham	Morrin Coll., Quebec.
Pierce, Ada E.	4	Willetsholme	Athens H. S.
Platt, G. A.	3	Portsmouth	Kingston C. I.
Platt, E. O.	4	Plainfield	Belleville H. S.
Polson, J. A.	1	Kingston	Kingston C. I.
Polson, S. M.	4	Kingston	Kingston C. I.
Pomeroy, J. C.	2	Riverbank	Mount Forest H. S.
Poole, Edna	1	Poole's Resort	Brockville C. I.
Pound, F. J.	5	Kingston	Kingston C. I.
Pratt, Pearle	1	Peterboro	Peterboro C. I.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Pringle, G. W.	2	Ormsby	Madoc C. I.
Pringle, J. F.	3	Cornwall	Dufferin Gram. School.
Purdy, May	4	Kingston	Kingston C. I.
Ramsay, D. C.	2	Plattsville	Woodstock C. I.
Raymond, A. L.	4	Williamstown	Williamstown H. S.
Reid, E. J.	5	Centreville	Napanee C. I.
Reid, Lulu	3	Kingston	Kingston C. I.
Reynolds, B. C.	1	Athens	Athens H. S.
Reynolds, Lillian M.	1	Athens	Athens H. S.
Rhoades, H. G.	1	Hamilton	Rugby School, England.
Richardson, Kate	2	Brockville	
Richardson, J. A.	2	Kingston	Hillcroft Academy.
Rintoul, A.	1	Tatlock	Almonte H. S.
Roadhouse, A. F.	1	Waldemar	Albert Coll., Belleville.
Robb, D.	1	Battersea	Sydenham H. S.
Robb, J. J.	4	Battersea	
Roberts, W. C.	2	Carleton Place	Carleton Place H. S.
Robinson, F. A.	4	Lanark	Mt. Hermon, Mass.
Robinson, G. D.	3	Fort Stewart	Albert Coll., Belleville.
Robinson, J. C.	1	Nobleton	Man. Coll., Winnipeg.
Robinson, Mabel G.	2	Kingston	Kingston C. I.
Roddick, A. M.	3	Lyndhurst	Athens H. S.
Roxburgh, J. M.	1	Cochrane, Alta	Stratford C. I.
Russell, Ella	2	Ottawa	Ottawa C. I.
Sargent, F. R.	4	Kingston	Kingston C. I.
Saunders, Elsie E.	3	Kingston	Kingston C. I.
Schofield, S.	3	Kingston	Kingston C. I.
Scidmore, Irene	1	Otterville	Norwich.
Scott, A. K.	7	Flat Rock, Mich.	Woodstock C. I.
Scott, Carrie L.	2	Napanee	Napanee C. I.
Scott, Jean M.	3	Kingston	Kingston C. I.
Scott, R. A.	3	Walkerton	Owen Sound C. I.
Sharp, G. M.	3	New Liskeard	Renfrew H. S.
Sharpe, Helena A.	3	Odessa	Kingston C. I.
Sharp, W. H.	3	Walsh	Port Dover H. S.
Shaver, Alice	3	Woodstock	Woodstock C. I.
Shaver, J. A.	1	Morewood	Morrisburg C. I.
Shepherd, M. W.	3	Williamstown	Toronto University.
Sheppard, F. W.	4	Berlin	Berlin H. S.
Sherwood, H. D.	1	Lowville	Fergus H. S.
Shortt, A. L.	3	Metcalfe	Ottawa C. I.
Simmons, G. E.	1	Marmora	Trenton H. S.
Simpson, B. L.	5	Peterboro	Peterboro C. I.
Sinclair, J.	4	Toronto	Toronto University.
Sine, F. L.	3	Hawkesbury	Meaford H. S.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Singleton, Jessie W.	3	Kingston	Carleton Place H. S.
Smith, G. H.	2	Kingston	Kingston C. I.
Smith, R. D.	2	Westmount, Que.	McGill Normal School.
Snyder, G.	2	Burridge	Sydenham H. S.
Solmes, Harriette	2	Picton	Picton H. S.
Spence, H. D. L.	4	Kingston	London C. I.
Spencer, Amy	2	Kingston	Brantford C. I.
Spotswood, Edna A.	1	Riceville	Alexandria H. S.
Steed, J. H.	1	Lyn	Brockville C. I.
Stevenson, R. M.	3	Ridgetown	Ridgetown C. I.
Stewart, D. J.		Waba	
Stewart, Lily D.	1	Waba	Renfrew H. S.
Stilwell, G. B.	2	Heathcote	Meaford H. S.
Stothers, Minerva	2	Ottawa	Ottawa C. I.
Stretton, Eva	2	Frobisher, Assa.	Uxbridge H. S.
Speers, J. A.	3	Alliston	Barrie C. I.
Struthers, W. E.	3	Lanark	Lanark.
Sullivan, J. F.	4	Ottawa	Peterboro C. I.
Sully, L. K.	2	Ottawa	Ottawa C. I.
Stewart, J. R.	5	Waba	Renfrew H. S.
Swanson, W. W.	3	Oshawa	Oshawa H. S.
Teskey, Kathleen	5	Appleton	Carleton Place H. S.
Tomkins, Elizabeth	1	Hintonburg	Ottawa C. I.
Tompkins, Louise H.	4	Brockville	Brockville C. I.
Torrance, E.	1	Milverton	Tillsonburg H. S.
Trask, J. A.	1	Parry Harbor	Orillia C. I.
Truscott, S. A.	4	Sydenham	Sydenham H. S.
Turner, N. L.	1	Hamilton	Hamilton C. I.
Twitchell, E. G.	4	Kingston	Kingston C. I.
Twohy, Henrietta	4	Hamilton	Hamilton C. I.
VanDusen, E. M.	2	Far Rockaway, N. Y.	Napanee C. I. and Picton H. S.
Uglow, W. L.	2	Kingston	Kingston C. I.
Usher, W. C.	2	Wicklow	Brighton H. S.
Wallace, I.	1	Belleville	Albert College.
Wallace, S. A.	1	Haley's Station	Renfrew C. I.
Ward, H.	5	Toronto	Berlin H. S.
Watson, G. A.	4	Fergus	Williamstown H. S.
Watt, W. J.	3	Walkerton	Walkerton H. S.
Weaver, A. H. Maud	1	Trenton	Trenton H. S.
Webster, A. R.	4	Gananoque	Gananoque H. S.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Weir, W. J.	1	Lansdowne	Perth C. I.
Welch, J. O.	2	Ottawa	Ottawa C. I.
Wetherald, J. H.	1	Pickering	St. Catharines C. I.
Whattam, R. A.	1	Camden	Picton H. S.
Whinton, W. E. H.	4	Kingston	Kingston C. I.
White, H. P.	4	Pembroke	St. Andrew's Coll., Tor.
Whitehead, J.	3	Ross Mount	Port Hope H. S.
Wilkinson, A. T.	4	Pincher Creek, Alta.	Brantford C. I.
Williams, L. J.	3	Georgetown	Watford H. S.
Williams, Mary I.	4	St. Thomas	St. Thomas C. I.
Williamson, Flo.	3	Kingston	Kingston C. I.
Wilson, Annie J.	5	Carp	Ottawa C. I.
Wilson, J. J.	1	Oil City P.O.	Petrolea H. S.
Wood, H. S.	3	Peterboro	Peterboro C. I.
Workman, Catherine	1	Kingston	Stratford C. I.
Workman, H. C.	2	Kingston	Kingston C. I.
Wormwith, N. B.	4	Kingston	Kingston C. I.
Wright, G. C.	2	Kingston	Kingston C. I.

POST-GRADUATE STUDENTS (In Arts.)

NAME.	ADDRESS.
Beckett, S. E., B.A.	Kintail.
Bishop, C. P., B.A.	Athens.
Bolton, L. L., M.A.	Portland.
Borley, H. D., B.A.	
Brown, A. H., B.A.	Oil Springs.
Brown, T. C., B.A.	Richmond.
Cameron, A. E., B.A.	Wemyss.
Clothier, J. O.	Hawkesbury.
Connolly, H. A., M.A.	Lachute, Que.
Cowan, S. G., B.A.	Peterboro.
Crummy, Eber, B.Sc.	Kingston.
Edwards, C. H., B.A.	Napanee.
Johnston, W. A., M.A.	Athens.
Knight, C. W., B.Sc.	Kingston.
Lowe, W. D., M.A.	Kingston.
Mylks, G. W., M.D.	Kingston.
McConachie, J. C., B.A.	Cranston.
McCormack, S. G., M.A.	Lyn.
MacDonald, J., M.A.	Williamstown.
Macdonnell, L. M., B.A.	Fergus.
MacDougall, F. H., M.A.	Maxville.
McEachran, J. M., M.A.	Glencoe.
MacInnes, W. H. E., B.A.	Vankleek Hill.

NAME.	ADDRESS.
McKeracher, D. A., B.A.	Dutton.
McNab, G. G., M.A.	Renfrew.
Macpherson, H., B.A.	Grand Valley.
Newton, Meta., B.A.	Deseronto.
Race, W. B., B.A.	Watford.
Ruttan, Emily E., B.A.	Kingston.
Sexsmith, M. E., B.A.	Centreton.
Slack, E. B., B.A.	Toronto.
Smith, J. H., B.A.	Kuhryville.
Wallace, H. T., B.A.	Hamilton.
Watson, Alice R., B.A.	Kingston.
Weaver, H. V., M.D.	Kingston.
Wells, E. J., B.A.	Deceased.
Whiting, C. C., M.A.	Toledo.
Williams, W. H., M.A.	Picton.
Wilson, R. A., M.A.	Renfrew.
Woods, I. H., B.A.	London Junction.

GENERAL STUDENTS.

NAME.	ADDRESS.
Abbott, Muriel	Kingston.
Cays, Lulu M.	Kingston.
Clarke, H. M.	Almonte.
Cotton, Dorothy	Ottawa.
Craig, Gertrude R.	Kingston.
Crothers, N. G.	Kingston.
Drury, V. M.	Kingston.
Evans, A. R.	Omemee.
Forbes, C. M.	Lanark.
Jackson, R. C.	
Lesslie, Anna H.	Kingston.
Madill, A. S.	Kingston.
Mitchell, Edna	Kingston.
MacFarlane, D.	Hamilton.
Mackey, J. A.	Beachville.
Rafter, R.	Arthur.
Salisbury, C. C.	Watford.
Scurrah, P. B.	Forthill.
Shaver, J. M.	Grantley.
Shields, Luella E.	Kingston.
Smith, Jessie B.	Kingston.
Thompson, T. D.	Spring Valley.
Urquhart, J. R.	Maitland, N.S.
Walsh, M. J.	Kingston.
Wright, G. C.	Kingston.

STUDENTS IN THEOLOGY.

NAME.	YEAR.	ADDRESS.
Beckett, S. E., B.A.	2	Kintail.
Beckstedt, I. N., B.A.	3	Chesterville.
Brown, T. C., B.A.	3	Richmond.
Borley, H. D., B.A.	3	South Bend, Ind.
Caldwell, J. A., B.A.	3	Watson's Corners.
Caldwell, J. S.	1	Watson's Corners.
Cameron, A. E., B.A.	1	Wemyss.
Donnell, J. A., M.A.	1	Beaverton.
Ferguson, J.	1	Fergus.
Ferguson, J. Y., B.A.	3	Admaston.
Hutchison, J. H.	2	Brechin.
Kidd, C. E.	1	Prospect.
Kidd, W. J., B.A.	1	Prospect.
Lindsay, M. A. F.	1	
Miller, J. H.	2	
Moore, W.	3	Carleton Place.
Munro, G.	3	Ridgetown.
Munro, M. F.	1	Lancaster.
McConachie, J. C.	2	Cranston.
MacDonald, J. M.	1	Orangeville.
Macdonnell, L. M., B.A.	2	Fergus.
MacInnes, W. H. E., B.A.	2	Vankleek Hill.
McKeracher, D. A., B.A.	1	Sutton West.
MacKinnon, J. D.	1	East Lake, Ainslie, N.S.
McLennan, G. B., B.A.	3	Walkerton.
McLeod, K. C.	4	Golspie.
Macpherson, H., B.A.	2	Grand Valley.
MacQuarrie, W. J.	2	Kingston.
Petrie, J. A., B.A.	3	Belleville.
Smith, J. E., B.A.	3	Cookstown.
Solandt, D. M., B.A.		Kingston.
Strachan, C. C.	2	Glencoe.
Wallace, H. T., B.A.	2	
Watts, J. R., B.A.	3	Shelburne.
Webb, C. W., B.A.	1	Ancaster.
Whiting, C. C., M.A.	2	
Woods, I. H., B.A.	1	London Junction.

PRACTICAL SCIENCE STUDENTS.

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Alder, W. R.	Prescott.
Akins, J. R.	Kinburn.
Anson-Cartwright, R. H. M.	Belleville.
Arthur, A.	Appleton.
Bailie, A. A.	Billing's Bridge.
Baker, C. W.	Kingston.

NAME.	ADDRESS.
Bateman, G. C.	
Berney, K. C.	
Bolger, E. J.	Kingston.
Bolton, L. L., M.A.	Portland.
Brewster, F. A.	Banff, Alta.
Brown, E. W.	Hawkesbury.
Browne, P. J.	Kingston.
Brown, T.	
Cairnes, D. D.	Grand Forkes, B.C.
Campbell, A. S.	Stonewall, Man.
Carr-Harris, A.	Kingston.
Cartwright, C. T.	Kingston.
Cavers, T. W.	Carleton Place.
Chaplin, G. W.	St. Catharines.
Code, E. S. L.	Kingston.
Code, L.	Kingston.
Coe, A. P.	
Collins, E. A.	Copper Cliff.
Connell, F. M.	Spencerville.
Cooper, R. H.	Springhill, N.S.
Corbett, R. A.	St. Catharines.
Corkill, E. T.	Sydenham.
Cumming, A. L.	Cornwall.
Dennis, E. M.	Burgessville.
Denovan, J.	Dalkeith.
Dillabough, J. V.	North Williamsburg.
Dobbs, G. G.	Kingston.
Dobbs, W. S.	Kingston.
Drummond, L. E.	
Dunkley, J. B.	Picton.
Eyre, W. H.	Whitehurst.
Fairlie, T. U.	Kingston.
Fee, T.	St. Catharines.
Fenwick, G. P. O.	Apohaqui, N.B.
Finnie, H.	Peterborough.
Fletcher, W. K.	Saskatoon, N.W.T.
Forin, P. McL.	Nelson, B.C.
Gage, R. G.	
Gagnon, J. A.	Chicoutimi, P.Q.
Gardner, K. V.	Ottawa.
Germain, H. A.	Kingston.
Gleeson, J. V.	Kingston.
Gleeson, L. J.	Kingston.
Grant, J. R.	Chesley.
Graves, R. B. S.	Kingston.
Grenon, J. F.	Chicoutimi, P.Q.
Haddow, A. W.	Simcoe.
Hebden, R. C.	Paull Battery, E. Yorks, Eng.

NAME.	ADDRESS.
Henderson, E. W	Almonte.
Houston, D. W	Omaha, Neb.
Herriot, G. H	Souris, Man.
Houser, W. H	Canboro.
Irwin, R. T	Norwich, Ont.
Jackson, G. J	Simcoe.
Jenkins, W. E	Orwell, P.E.I.
Johnston, W. A., M.A	Athens.
Keith, G. C	Smith's Falls.
Kilburn, D. G	Stratford.
King, J. A. S	Souris, Man.
King, J. L	Fairfax, Man.
Lavell, F. M	Smith's Falls.
Lavoie, E	Baie-St. Paul, Que.
Lazier, S	Belleville.
Lawrence, F. H	Kingston.
Lennox, J. S	Kingston.
Malone, E. E	Toronto.
Malloch, E. S	Hamilton.
Malloch, G. S., B.A	Hamilton.
Millar, R	Kingston.
Marcellus, E	Morewood.
Marshall, J. H. G	Stella.
Matheson, H	Armow.
Montgomery, O. M	Lanark.
Moore, R. T	Kingston.
Murphy, A. A	Portland.
Murray, C. W	Mission City, B.C.
McArthur, F	Gore Bay.
McClennan, W. D	Peterborough.
McCulloch, R	Souris, Man.
McEwen, D. F	Hensall.
McEwen, R. L	Carleton Place.
McGinnis, W. C	
McIlquham, W. L	Lanark.
McKay, G. J	Owen Sound.
McKay, R. B	Cornwall.
Mackenzie, H. A	Moulinette.
McLaren, G. R	Perth.
McLaren, W. M	Osceola.
McLennan, K. R	Lindsay.
Macphail, J. G., B.A	Orwell, P.E.I.
Orr, F. O	Peterborough.
Ostrom, S. A	Alexandria.
Oswald, W. A	Pontypool.
Peppard, H	Springhill.
Pinkerton, W. A	Portland.
Reid, F. D	Kingston.

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Rice, F. W.	Perth.
Richardson, G. T.	Kingston.
Rockwell, D. B.	Duluth, Minn.
Rogers, W. R.	Fordwich.
Sands, J. M.	Kingston.
Scott, H. H.	Perth.
Sears, E. H.	Dawson, Y.T.
Sears, J.	Kingston.
Shaver, P. A.	Grantley.
Shorey, P. M.	Picton.
Sloan, D.	Perth.
Smith, G.	Aylmer, Que.
Speirs, T.	Appleton.
Squire, R. L.	Kingston.
Stiles, L. P.	Cornwall.
Strachan, B. O.	Kingston.
Sutherland, T. F.	New Carlisle.
Swift, C. J.	Kingston.
Tett, B.	Newboro.
Thompson, A. T.	Kingston.
Thornton, L. A.	Peterborough.
Timm, W. B.	Westmeath.
Toffey, F. H.	Portland.
Twitchell, K. S.	St. Albans, Vt.
Walkem, H. C.	Kingston.
Walker, H., B.A.	Metcalfe.
Way, W. C.	Lindsay.
Webster, A. R.	Gananoque.
Weld, W. E.	London.
Wells, E. J.	Deceased.
Woolsey, W. J.	Black Lake, P.Q.
Wilson, E. E. D.	Nelson, B.C.
Wilson, R. J.	Kingston.
Workman, J. K.	Kingston.
Wright, A.	Brockville.

STUDENTS IN MEDICINE, 1903-4.

NAME.	ADDRESS.	YEAR.
Anderson, P. M., M.A.	Belleville	1
Asselstine, B.	Wilton	1
Austin, C. J.	Gouverneur, N.Y.	5
Bailey, R. W.	Kingston, Jamaica	4
Baker, A. E.	Osnabruck Centre	2
Bell, A. M.	Moscow	2
Bennett, H. J.	Gananoque	3
Bolton, E.	Phillipsville	2
Bond, H. E.	Kingston, Jamaica	1

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Branscombe, M. E., B.A.	Picton	4
Bromley, J. E.	Pembroke	4
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Burke, M. L.	Port Antonio, Jamaica	1
Carmichael, M. A.	Whycocomaugh, C.B.	2
Carruthers, J. S.	New Glasgow, N.S.	4
Carto, G. E.	Georgetown, Demarara	1
Caskey, J. C.	Tweed	4
Casselman, S. B.	North Williamsburg	1
Cays, F. A.	Kingston	1
Chant, J. A.	Chantry	3
Charbonneau, J. E.	Hawkesbury	1
Charlebois, J. A.	Hull, Que.	1
Cliff, G. F.	Carleton Place	2
Cochrane, H.	Sunbury	2
Cockburn, G. L.	Sturgeon Falls	2
Code, J. H.	Kingston	3
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Consitt, E. C.	Perth	3
Corrigan, J. A.	Kingston	4
Costello, T. J.	Calgary, Alta.	4
Craig, H. G.	Aylmer, Que.	2
Cumming, A. W.	Monckland Station	2
Curphey, A. G.	Kingston, Jamaica	1
Daley, T. V.	Kingston	1
Dawson, J. K.	Wolfe Island	5
Dear, C. B.	Bridgetown, Barbadoes	3
DeLong, E. W.	Gananoque	4
Dingwall, D. G.	Lancaster	2
Dowson, C. K.	Bristol, Eng.	5
Doyle, J. F.	Kingston	2
Driscoll, A. C.	Trenton	4
Duchesne, J. H.	St. Anne	1
Dunham, C. S.	Toledo	1
Dudley, W. H.	Pembroke	3
Dwyer, J., M.A.	Kingston	2
Eby, D. M.	Kingston	1
Eddington, C. M.	Kingston	1
Ellis, R. J.	Ellisville	1
Falkner, A. D.	Williamstown	4
Ferguson, E. A.	Kingston	5
Ferguson, J. Y., B.A.	Admaston	3
Ferguson, A. A.	Glen Walter	4

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Ford, W. H.	Bridgetown, Barbadoes	1
Franklin, V. G.	Bridgetown, Barbadoes	1
Gallivan, J. V.	Kingston	4
Galloway, J. E. B.	Kingston	2
Gardiner, J. L.	Kingston	1
Gaudet, E. A., B.A.	Moncton, N.B.	3
Geddes, W. J.	Kingston	4
Gibson, W.	Emerald	4
Gillespie, J. J.	Morrisburg	4
Girvin, A. W.	Stella	3
Goodfellow, J. R.	Kingston	4
Gordon, G. D.	Kingston	3
Graham, C. W.	Kingston	2
Graham, J. A.	Montreal	5
Gray, T. J.	Kingston	4
Gray, D. W.	Kingston	5
Greaves, G. A.	Kingston	1
Green, H. B.	Lyndhurst	3
Grimshaw, M. E.	Wolfe Island	3
Halladay, R. W.	Elgin	3
Haycock, G. G.	Cataraqui	3
Herald, J. G.	Kingston	2
Hogan, J. T.	Perth	3
Holmes, G. E.	Athens	1
Hoppin, L. W.	Kingston	4
Hourigan, J. M.	Smith's Falls	3
Huffman, G. E.	Napanee	2
Hunt, A. H.	Bridgetown, Barb.	3
Hunter, G. H.	Kingston	1
Johnston, A. C.	Kingston	1
Johnston, John, B.A.	Combermere	1
Kane, J. L.	Gananoque	5
Keeley, F. J.	Railton	1
Keyes, S. J.	Kingston	3
Kingsley, F.	Wolfe Island	4
Kinkead, C. E.	Kingston, Jam.	4
Laidley, W. G.	Odessa	2
Labrosse, J. L. A.	St. Eugene	4
Laidlaw, C.	Georgetown	1
Lalonde, A. J.	Barrie	4
Lapierre, J. M.	Buckingham, P.Q.	1
Larocque, Jos.	Alfred	4
Lavell, W. H.	Kingston	4
Lawler, C. A.	Kingston	2
Leach, G. C., B.A.	Fenelon	4
Lee, R. A.	Port Hope	4
Lesses, M.	Kingston	3
Locke, M.	Brinston's Corners	3

NAME.	ADDRESS.	YEAR.
Losee, J. R.	Collins' Bay	1
Lowe, F. L.	Montego Bay, Jam.	2
Macgillivray, T. D., B.A.	Kingston	3
Mackinnon, D. L.	Lake Ainslie, C.B.	3
Maclachlan, A. J.	Glencoe	3
Mahood, A.	Kingston	3
Might, L.	Kingston	2
Mikaera, W. R.	Gladstone, New Zealand	3
Mills, R. M.	Kingston	1
Moore, H. E.	Pickering	3
Moxley, C. R.	Kingston	3
Munroe, A. T.	Moose Creek	4
McCallum, S.	Brewer's Mills	1
McCambridge, L. L.	Kingston	1
McCarthy, J. H.	Kingston	5
McCormick, A. M.	Ottawa	1
McCormick, J. P.	Ottawa	2
McCullough, F. C.	Gananoque	4
McDermott, J. P.	Eganville	1
McDermott, J. F.	Kingston	1
McDonald, A.	Scotch Line	1
McDonald, D. J.	Whycocomagh, C.B.	2
McDonald, H. A.	Sunbury	4
McFadyen, J. Y.	Tignish, P.E.I.	2
McGonigle, M.	Newboro	4
McIntosh, P. A., B.A.	Dundela	3
McKenley, A. G.	Chaperton, Jam.	2
McLellan, D.	Foresters' Falls	2
McLeod, N.	Moose Creek	1
McMillan, A. D.	Finch	3
McNamara, J. P.	Stratford	1
Nicholls, R. F.	Kingston	1
Nickle, W. C.	Madoc	3
Nicolle, F. R., B.A.	Kingston	1
O'Connor, F. J.	Long Point	2
Palmer, W. M. R.	Northcote	2
Paterson, R. K.	Renfrew	2
Patterson, W. E.	Newburgh	2
Patterson, W. R.	Kingston	2
Paul, R. D.	Selby	1
Pennock, N. I.	Brockville	4
Playfair, L. L.	Kingston	2
Platt, E. O.	Plainfield	1
Porter, W. C., B.A.	Cleveland, Ohio	1
Presault, J. W.	Alfred	4
Publow, C. A.	Perth	2
Quigley, J. P., M.A.	Kingston	1
Randall, G. R.	Seeley's Bay	3

NAME.	ADDRESS.	YEAR.
Raymond, A. L.	Williamstown	1
Redden, H. O.	Ernesttown	2
Reid, E. J.	Centreville	1
Reid, R. G.	Kingston	3
Reid, James	Renfrew	2
Reynolds, B. C.	Athens	1
Reynolds, M. E.	Athens	3
Riddick, W.	Ottawa	1
Rielly, F. J.	Kingston	1
Rigney, M. G.	Maberly	2
Robb, J. J.	Battersea	3
Robb, Wm.	Lunenburg	3
Robinson, E. J.	North Williamsburg	4
Rutledge, S. H.	Thomasburg	4
Sandwith, B. A.	Constable, Eng.	2
Scott, R. A.	Walkerton	2
Scott, R. H.	Pembroke	4
Shannon, S. S.	Kingston	2
Singleton, A. H., B.A.	Newboro	4
Smith, B. A.	Hartington	3
Smith, N.	Kingston	4
Smith, S. H.	Chambers	2
Smith, W. A.	Kingston	3
Snyder, J. B.	Lancaster	2
Spankie, A. T.	Wolfe Island	1
Spankie, W. E.	Wolfe Island	2
Sparks, J. F., B.A.	Kingston	3
Spooner, A. C., B.A.	Latimer	3
Sproule, E. W.	Harrowsmith	3
Stewart, J. A.	Renfrew	4
Stewart, J. R.	Waba	2
Story, G. E.	Almonte	1
Sullivan, H. J.	Peterboro	1
Sutherland, B.	Belleville	2
Sutherland, E.	Belleville	2
Taugher, W. J.	Beachburg	2
Tandy, H., B.A.	Havelock	4
Templeton, C.	Napanee	2
Tennent, R. W.	Belleville	3
Thompson, A. Y.	Strathroy	1
Trousdale, F. H.	Hartington	1
Twitchell, E. G.	Kingston	2
Tyner, S. E.	Kingston	4
VanNess, C. S.	Wolfe Island	4
Wade, J. J.	Balderson	2
Wagar, C. M.	Enterprise	3
Walker, O. J. M.	Athens	1
Warren, F. R. W.	Balderson	2

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Warren, J. W.	Harper	3
Way, S. P.	Watford	1
Weaver, H. V.	New Bedford, Mass.	3
Wells, E. J.	Bouck's Hill	1
Wightmann, R.	Lancaster	1
Williams, E. J. F., B.A.	Brockville	4
Williamson, H. J., B.A.	Kingston	3
Young, D. M.	Bristol Corners	2
Young, F. S.	Forfar	2
Young, J. M., B.A.	Renfrew	4
Yule, W. L.	Gananoque	1

ARTS HONOUR LISTS FROM 1877 TO 1903.

Alcombreck, R. W., Greek II, '96; Latin II, '97.
Aikin, J. A., Philosophy II, '03; Political Science I, '03.
Allen, Maggie D., Botany I, '93; Geology I, '93; Zoology II, '93; Histology II, '93.
Allen, T. G., Natural Science I, '88.
Anderson, F. C., Animal Biology II, '00; Botany I, '00.
Anderson, P. McC., History I, '03; Political Science I, '03.
Anglin, F. R., German II, '94; French II, '95; Italian II, '94.
Anglin, R. W., Mathematics I, '97.
Anthony, J., Political Science III, '98; Philosophy I, '00.
Arthur, C. C., Chemistry I, '91; Botany I, '91; Zoology I, '91.
Asselstine, F., Botany I, '97.
Attwood, A. E., Animal Biology II, '95; Botany I, '95.
Bajus, Carrie, French I, '01; German II, '01; English III, '01.
Baker, H. M.; Botany I, '91; Zoology I, '91; Geology I, '91.
Baker, M. B., Chemistry II, '00; Geology I, '00.
Baker, W. C., Chemistry I, '95; Mineralogy I, '95; Physics II, '97.
Baker, W. R., Botany II, '96.
Barclay, W. B. C., Latin II, '88; English Literature and History II, '88.
Barker, J., English III, '99; French II, '01.
Barnard, A. T., Latin I, '99; English III, '99.
Barr, Janet, Italian II, '94; French III, '00; German III, '00; English III, '00.
Bates, C. J. L., Philosophy I, '01.
Beall, A. W., Latin I, '88; Moderns I, '88.
Beaton, A. H., History I, '94; Political Science II, '94.
Beaton, K., English III, '97; Latin II, '96.
Belfour, P. F., Chemistry II, '99; Mineralogy II, '99.
Bell, J. M., Biology I, '99; Chemistry I, '99.
Bellamy, Mabel, English III, '00.
Bennett, C. V., Latin II, '94; Greek II, '94.
Bennett, W. C., Greek III, '97; Latin II, '95.
Bennett, W. H., Latin III, '00; Greek III, '01.

Berlanquet, H. S., Latin II, '96; Greek II, '96.
Bernstein, J. S., History I, '97; Political Science I, '98.
Best, Isabella M., English II, '00; French II, '00; German I, '01.
Billings, T. H., Latin I, '01; Greek I, '02.
Binnie, J., Political Economy I, '88; Philosophy II, '88.
Black, B. S., Latin I, '03.
Black, H. H., Latin I, '98; Greek I, '99.
Black, Jean, German III, '03.
Bloor, W. R., Botany I, '02; Animal Biology I, '02.
Boddy, Martha, Systematic Mineralogy (only), '93; Zoology II, '93; Histology I, '93; Geology I, '94.
Bolton, L. L., Mineralogy I, '03; Geology I, '03.
Bower, T. T., Animal Biology II, '98.
Bowermann, J. T., Botany I, '89; Zoology I, '89; Geology I, '89;
Boyd, Annie A., Botany I, '98; Biology I, '98.
Boyd, Mabel E., Botany II, '98; Biology III, '98.
Boyle, J., Mathematics II, '91.
Breck, R. W., Mineralogy I, '95; Chemistry I, '95.
Briden, William M., Classics I, '79.
Brisco, N. A., History I, '98; Political Science I, '00.
Brown, A. B., English III, '97; French II, '98; German III, '98; Italian II, '98.
Brown, J. C., English I, '96; History I, '96.
Brown, T. C., Political Science I, '01.
Bryan, H. W.; Latin I, '94; Greek I, '94.
Bryant, J. F., Latin III, '01; Greek III, '01.
Burgess, H. H., History I, '96.
Burrows, A. G., Chemistry I, '00; Mineralogy I, '00; Geology I, '01.
Burton, R., English I, '96; Philosophy I, '98.
Caldwell, J. A., History II, '01.
Calhoun, A., Latin I, '01; Greek I, '02.
Cameron, A. R., Latin I, '02; Greek II, '03.
Cameron, C. J., Greek I, '82; Latin I, '82.
Cameron, C. K. O., Histology I, '93.
Cameron, J., English I, '97; German II, '97; French II, '96; Italian I, 97.
Campbell, Annie G., Moderns I, '91.
Campbell, A. L., English III, '97.
Campbell, C. D., Latin II, '95; Greek II, '96.
Campbell, P. McG., Mathematics II, '92.
Canon, J. D., Political Science I, '98.
Carmichael, H., Philosophy I, '97.
Carmichael, N. R., Mathematics I, '90; Greek I, '90; Latin I, '90.
Chambers, R., Botany I, '02; Animal Biology I, '02.
Chisholm, W. I., Zoology I, '93; Botany I, '94; Animal Biology I, '94.
Clark, Grace, German I, '03.
Clark, G. W., Latin I, '99; Greek I, '99; English III, '99.

Clark, J. K., Chemistry II, '95.
Clark, J. W., Geology II, '95.
Clark, R. J., Latin II, '95; Greek I, '95; English I, '95; Political Science II, '95.
Clark, W. T., Latin II, '95; Greek II, '95.
Claxton, J., Latin II, '88.
Claxton, J. A., Moderns I, '88.
Cloney, S. Louise, Italian I, '96. German II, '97; French I, '97.
Cloney, S. E., English I, '96.
Clyde, W., Greek I, '86.
Collison, J., Chemistry I, '98.
Collier, W. H., Mathematics II, '98.
Conn, J. R., English II, '96; Political Science I, '96.
Connell, J. C., Mathematics I, '85.
Connell, J., Latin II, '92; Greek II, '92.
Connolly, H. A., Moderns I, '95; English I, '95.
Cook, Gertrude, Latin I, '02; Greek II, '03.
Cooke, J., Latin II, '84; Greek II, '84.
Corkill, E. J., Chemistry II, '89; Botany II, '89.
Cowley, R. H., Geology I, '92.

—195—

Crawford, W. F., Philosophy II, '00.
Cryan, G., French III, '97; Italian II, '97; German II, '98; English II, '98.
Croskery, R. A., Latin II, '95.
Cummings, J. C., Physics I, '98.
Cunningham, D., Zoology I, '91.
Curle, W., Mathematics I, '89; Political Economy I, '89.
Currie, P. W., Latin II, '96.
Dalton, G. F., History I, '97; Political Science III, '98.
Davis, B. N., Mathematics I, '81; Chemistry I, '81.
Davis, J. S., Political Science I, '97.
Davis, W. H., Philosophy I, '93.
Day, A. E., Moderns I, '95; English I, '96.
Day, J., English III, '01.
Denyes, J. M., Latin II, '95; Moderns II, '95.
Detlor, W. T., History II, '97.
Dickson, C. W., Animal Biology I, '00; Chemistry I, '00.
Dolan, G., Latin II, '99; English III, '99; Greek II, '00; History I, '00.
Dolan, J. H., Greek I, '97; Latin II, '98.
Donnell, J. A., History I, '02; Political Science I, '02.
Downing, J., Latin II, '92; Moderns II, '92.
Downing, J. J., Latin II, '91.
Dowsley, W. C., English II, '98; Latin I, '98.
Drennan, Ethel, English III, '00.
Drummond, D. R., Greek I, '89; Latin I, '89.
Drummond, W. J., Greek II, '85; Latin II, '85.
Duff, J., Greek I, '99; English I, '99.

Dunkley, A. W., Latin I, '98; Greek I, '99.
Dunkley, W. G., Chemistry II, '02; Mineralogy III, '02.
Dunlop, J. G., Moderns I, '86; English Literature and History II, '87.
Dupuis, J. M., Chemistry I, '79.
Durie, C. L., English II, '99; Political Science I, '99.
Dwyer, J. G., Mathematics II, '02.
Dyde, G. E., English II, '93; Greek I, '89; Latin II, '89.
Dyde, S. W., Classics I, '81; Philosophy I, '84.
Easton, W. H., Philosophy I, '93.
Edmison, G. A., Political Science II, '00.
Edwards, C. B., English II, '99; History II, '99.
Elliott, E., English II, '86; History I, '86; Moderns II, '86.
Ewing, Florence M., French II, '03; English III, '03.
Ewing, W. C., Animal Biology I, '95; Botany I, '95.
Farquharson, R. A., Moderns III, '97.
Farrell, T. H., Mathematics I, '89.
Fee, W. M., Philosophy I, '99.
Fenwick, A. M., Botany I, '90; Zoology I, '90; Geology I, '90.
Ferguson, R., English Literature and History I, '82.
Findlay, J., Mathematics I, '87; Philosophy I, '90.
Finley, W. A., Greek I, '88; Latin I, '88.
Firth, W. P., Chemistry I, '01.
Fitzgerald, Eliza S., Greek I, '84; Latin I, '84.
Fitzpatrick, A., English II, '95.
Flath, Emma, French III, '02; German III, '02.
Fleming, Maude, French I, '03; English III, '03; Italian II, '02.
Fletcher, W. H., Botany I, '02; Animal Biology I, '02
Foik, H. J., French II, '02; German I, '02.
Ford, A. B., Chemistry II, '93; Zoology I, '93; Histology I, '93.
Forfar, Lena M., Political Science II, '03.
Fowler, H. C., English Literature and History, '81.
Fox, C. B., Chemistry I, '94; Histology I, '94; Zoology II, '93.
Folger, Marion, Moderns I, '86.
Fraser, Annie E., English I, '95.
Fraser, J. R., Philosophy I, '93.
Fraser, T., English I, '97; Latin III, '98.
Froats, W. C., Greek I, '03.
Furlong, T. H., Botany I, '97; Animal Biology I, '97.
Gallup, E. C., English II, '92.
Gandier, A., English Literature and History I, '83; Philosophy I, '83.
Gandier, J. C., Latin II, '01; Greek II, '01.
Gardiner, S. H., Chemistry I, '86; Natural Science I, '86.
Gavin, F. P., Botany I, '96; Animal Biology II, '96.
Geddes, R. W., Latin II, '96; Greek II, '96.
Gibson, J. C., Mathematics I, '92.
Gilfillan, J., Botany II, '96.
Girvin, H. G., Mineralogy II, '01.

Givan, A., Mathematics I, '83.
Givens, D. A., Mathematics I, '78.
Gober, Mai, English I, '98; History I, '99.
Goodfellow, J., English III, '97.
Goodwill, J. E. L., History II, '03; Political Science II, '03.
Gould, W. H., Mathematics I, '00.
Graham, P. E., French I, '98; German I, '98; Italian II, '98; English III, '98.
Grange, W. A., Political Science II, '98.
Grant, Ethel, German II, '03; French III, '03.
Grant, J. G., Mathematics II, '02.
Grant, W. L., Latin I, '94; Greek I, '94.
Gray, J. M., English II, '02.
Gray, S. H., Latin II, '94; Greek II, '94.
Grey, Stearns, English I, '03; History I, '03.
Grenfell, Caroline, Italian II, '97; German III, '99; French III, '99; English III, '99.
Grenfell, M. Elizabeth, Italian I, '98; French II, '99; German II, '99; English III, '99.
Grey, S., History II, '02.
Griffin, E. S., Latin II, '89; Moderns II, '89.
Griffith, Agnes J., English I, '95; Moderns I, '96.
Griffith, Edna B., Mathematics II, '96.
Guess, G. A., Zoology I, '93; Histology I, '93.
Guess, H. A., Chemistry I, '95; Mineralogy I, '95.
Hagan, J. W., Botany I, '03; Animal Biology I, '03.
Haig, A., Chemistry II, '88.
Hales, J., Chemistry I, '88; Philosophy II, '89.
Hall, J. R., Political Science II, '96; Philosophy I, '98.
Hamilton, C. F., English Literature I, '90; History I, '90.
Harper, A. M., History I, '00; Political Science II, '00.
Hartwell, G. E.; Greek II, '88.
Harvey, K., Italian II, '94; French II, '95.
Hawley, A. T., Latin I, '99; Greek I, '99.
Hay, A. G., Political Economy I, '88; Philosophy II, '89.
Hay, J., Philosophy I, '82; Political Economy I, '84.
Haydon, A., English I, '93; History I, '93; Political Science I, '93.
Hazlett, J. W., Chemistry II, '01.
Heap, F., Greek I, '90; Latin I, '90.
Henderson, G. F., English Literature I, '84.
Henderson, M., Political Science III, '00; English III, '01.
Henstridge, Eliz., English I, '96; History I, '97; French II, '00; German III, '00.
Herbison, R., Greek II, '94; Philosophy I, '96.
Herbison, W. J., English II, '95; Political Science II, '95.
Herchmer, Ethel M., English I, '01.
Hermiston, G. M., History II, '95.
Hewton, Gertrude, English I, '02; German I, '03.
Hiscock, R. C., Petrography and Economic Geology II, '96; Chem-

istry I, '96; Mineralogy II, '96.
Hoppins, L. W., Animal Biology III, '02.
Hord, A. H., English I, '01.
Horsey, H. E., Mathematics I, '86.
Hugo, F., English I, '93; Political Science I, '93; History I, '94.
Hume, J. P., Mathematics I, '81; Chemistry I, '81.
Hunter, J. McF., English Literature and History I, '86.
Hunter, R. F., History I, '96; English I, '97.
Hunter, W. R., Animal Biology I, '00.
Hutcheson, R. J., Latin I, '92; Greek I, '92.
Ingall, E. E., English III, '03.
Instant, F. P., English II, '96.
Ireland. F. A. W., Greek I, '91; Latin I, '91; English Literature I, '91.
Irvine, R., Latin II, '81.
Irvine, William H., Mathematics I, '77; Physics I, '77.
Irving, W. G., Political Science II, '94.
Jackson, V. W., Botany I, '03; Animal Biology II, '03.
Jameson, Georgina, French I, '99; German I, '99; English I, '99.
Johns, C. P., French I, '96; German II, '96; Italian II, '96; English II, '96.
Johnson, D. B., English III, '01; History II, '01.
Johnston, J. K., Animal Biology I, '97; Botany I, '97.
Johnston, J. R., English Literature and History II, '82.
Johnston, J. W., Botany I, '94; Animal Biology II, '94.
Johnston, W. A., Latin I, '03; Greek I, '03.
Kayler, W. B., Histology II, '93.
Keillor, James, English III, '00; History I, '00.
Kellock, J. McC., English Literature I, '92; History I, '92.
Kellock, W. McC., English II, '96; Political Science II, '96.
Kemp, W., French I, '98; German I, '98; Italian I, '98; English I, '99.
Kennedy, A., Mathematics I, '01.
Kennedy, A. H., English I, '03.
Kennedy, T., Mathematics I, '99.
Kerfoot. H. W., Latin II, '00.
Keys, S. J., History III, '03.
Kidd, C. E., English II, '02; Political Science II, '03.
Kilborn, O. L., Chemistry I, '87.
King, F., Mathematics I,' 89.
King, W. W., Latin I, '95; Greek I, '95.
Kirkland, W. S., Botany I, '98; Biology I, '98.
Laing, Maybelle, German III, '03; French III, '03.
Laird, Annie, L., English II, '00; French II, '01; German II, '01
Laird, D. H., Latin I, '98.
Laird, R., Latin I, '92; Greek I, '92; Philosophy I, '95.
Lang, G. R., Philosophy II, '96.
Langford, T. E., Botany I, '98; Biology II, '98.
Lavell, C. F., History I, '93; Political Science I, '94.

Lees, R., Botany I, '90; Zoology I, '90; Geology I, '90.
Left, R. M., English Literature II, '89; History I, '89; Moderns II, '89.
Lewis, L. L., French II, '99; German II, '99; Italian I, '99; English II, '00.
Leibner, E., Animal Biology III, '00; Botany I, '00.
Lindsay, C. V., History I, '99; Political Science I, '00.
Lindsay, E., History II, '96.
Linton, A. R., Classics I, '80; Philosophy I, '81.
Lockhart, T. J., Zoology I, '91.
Lochead, W. M., History I, '97; Political Science I, '98.
Logie, W. A., Greek I, '87; Latin I, '87.
Loucks, J. E., English III, '01; History II, '01.
Lowe, W. D., Latin I, '01; Greek I, '01; English III, '03.
Malcolm, G., History II, '92.
Malone, Edith, French I, '99; German I, '99; Italian I, '99; English I, '00.
Malloch, G. S., Greek II, '02; English II, '02.
Marquis, T. G., English Literature I, '91.
Marshall, J., Philosophy I, '87; English Literature I, '91.
Marshall, J. W., Latin III, '98.
Marshall, W. F., Political Science I, '98; English I, '98.
Marty, Aletta E., Moderns I, '93; English II, '94.
Marty, Sarah E., Moderns I, '96; English I, '97.
Mason, G. W., History I, '02; Political Science I, '02.
Matheson, J., Mathematics I, '01.
Matthews, S. W., Mathematics I, '97.
Meade, R., Botany I, '96; Animal Biology I, '96.
Meiklejohn, A. J., English II, '98.
Menish, Janet I., Moderns II, '95; English II, '95.
Menzies, R. D., Chemistry II, '95; Animal Biology I, '96.
Millar, J., Pol. Science I, '89; Philosophy I, '91; English I, '93.
Millar, J. M., English I, '93.
Millar, J. L., English II, '95; Political Science II, '96.
Miller, Eva M., French III, '01; German III, '01; English II, '02.
Miller, J., English Literature and History II, '86; Moderns II, '86.
Miller, J. D., English II, '96; Political Science II, '96.
Millions, Edna, French III, '99; German III, '99.
Mills, J. H., Greek I, '89; Latin I, '89.
Mills, Rhoda, Latin III, '98.
Minnes, R., Mathematics I, '89.
Misener, Geneva, Latin I, '98; Greek I, '99.
Mitchell, G. A., Philosophy II, '99.
Mitchell, G. W., Greek II, '85; Latin II, '85.
Mitchell, J. V., Mathematics III, '03.
Mitchell, S. A., Mathematics I, '94; Physics I, '95.
Moffat, W., Qualitative Analysis (only) I, '93; Zoology I, '93; Histology I, '93; Botany I, '94; Animal Biology I, '94.
Moore, J. R., Botany I, '96; Animal Biology I, '96.

Morden, G. W., Chemistry II, '88.
Morgan, J., Animal Biology III, '00; Botany II, '00.
Morrison, A. S., History I, '97; English III, '98.
Morton, Alice, Mathematics I, '99.
Mowat, A., English III, '00.
Mowat, J. McD., English II, '94; Political Science I, '95.
Mudie, Ethel, English III, '99; History I, '99.
Munro, H. B., English III, '98; History I, '98.
Munro, Maud E., French II, '96; Italian I, '96; German II, '99; English III, '99.
Munro, P. F., Latin I, '03.
Munro, W. B., History I, '95; Political Science I, '96.
Murphy, Isabella, English I, '01; History I, '01.
Murray, D. C., Animal Biology I, '00; Botany I, '00.
Murray, Minnie, Philosophy I, '94.
McCaig, J., English II, '96.
Macalister, Ursilla, Latin I, '00; English I, '00; French II, '01; German II, '01.
McCallum, A. B., Philosophy I, '80.
McCallum, J. A., English II, '00.
McCallum, S., Chemistry I, '03; Mineralogy I, '03.
McClement, W. T., Chemistry I, '87; Natural Science I, '88.
McColl, A. E., Mathematics II, '85.
McColl, J. A., English I, '94; Political Science I, '95.
McConachie, J. C., Political Science II, '02.
McConkey, Kate, German III, '03; French III, '03.
McCormack, M., French I, '01; German II, '01.
McCormack, S. G., German I, '03; French I, '03.
McCreary, R. N., Animal Biology I, '95; Botany I, '95.
McCrimmon, Annie L., French II, '02; German II, '02; English III, '02.
Macdonald, Geo., Classics I, '78; Philosophy I. '78; English Literature and History I, '78.
McDonald, J., Latin I, '92; Greek I, '92; English I, '01.
McDonald, J. F., Latin I, '99; Greek I, '00; English I, '99; Political Science I, '01.
McDonald, N., English II, '00.
McDonald, Norval, French III, '99; German II, '99.
Macdonnell, G. F., Latin I, '93; Greek I, '93.
Macdonnell, J. S., Latin I, '99; Greek I, '99.
Macdonnell, Logie, M., Greek I, '02; English II, '03.
Macdougal, C. A., Latin II, '95; Greek II, '95.
McDougall, F. H., Chemistry I, '02; Mineralogy I, '03.
McDougall, J. B., Latin II, '96; Greek II, '96.
McDowall, E., History II, '96.
McEachran, J. M., Philosophy I, '02.
MacEwen, G. G., Physics I, '03.
McEwen, J. S., English II, '97.
McGaughey, G. A., History I, '99; Political Science I, '00.

McGibbon, A., Latin I, '97.
McGillivray, Alice, Chemistry I, '84.
McGuire, J., Botany I, '01; Animal Biology I, '01.
McInnes, C. R., Physics I, '95; Mathematics I, '96.
MacInnes, W. H. E., Greek I, '02.
McIntosh, J. W., English I, '94; French I, '94; Italian I, 93; German I, '93.
McIntosh, W. D., Latin I, '92.
McKay, D. A., Animal Biology II, '00; Botany I, '03.
McKay, M., History I, '79.
McKay, R., Latin I, '81.
McKechnie, J. B., Mathematics I, '03.
McKechnie, J. H., Mathematics I, '02.
Mackenzie, Arch. A., Classics I, '77; Philosophy I, '77; English Literature and History I, '77.
Mackenzie, M., Philosophy I, '88.
McKinnon, M. A., Philosophy I, '00.
McLaren, W. W., English I, '98; Political Science I, '99.
McLean, R. A., Latin II, '03; Greek III, '03.
McLennan, Elizabeth, English II, '99.
McLennan, F. M., Mathematics I, '78.
McLeod, A., Political Economy I, '82.
McLeod, P. A., Political Economy I, '87; Philosophy I, '89.
McManus, Emily, English I, '93; Political Science II, '94.
McMillan, H. H., Mathematics II, '79.
McNab, G. G., Mathematics I, '02.
McNab, R. C., English II, '96; Political Science II, '96.
McNaughton, Elizabeth, Latin I, '99; Greek I, '00; English I, '01.
McPherson, H. G., French II, '96; Italian II, '96; German III, '97; English III, '97.
McPherson, Mary C., French III, '00; German III, '00; English II, '00.
McPherson, N., Philosophy I, '91.
McPherson, W. A., Mathematics II, '91.
McPherson, W. E., English II, '96.
MacQuarrie, W. J., English III, '03.
McRae, A. D., Animal Biology II, '00; Botany II, '00.
McRae, Donella, French II, '00; German III, '00; Italian II, '00; English III, '00.
McRae, F. A., Political Science II, '96; English II, '97.
McRae, T. W. R., English Literature and History I, '86.
McTavish, D., Classics I, '79; Philosophy I, '81.
McVicar, J., Mineralogy II, '93; Animal Biology II, '94; Chemistry II, '96.
Neish, A. C., Chemistry II, '98; Biology II, '98.
Nesbit, D. A., English III, '00; History III, '01.
Neville, K. P. R., Latin I, '97; Greek I, '97.
Newman, G. E., English II, '94; History II, '94.
Newton, Meta, English III, '02; History I, '03.

Nichol, Jennie, Moderns II, '93; History II, '93.
Nichol, W., Chemistry I, '83; Natural Science I, '85; English Literature and History I, '86.
Nicolle, F. R., Animal Biology II, '03; Chemistry II, '03.
Nimmo, H. M., Latin II, '98; Greek I, '98.
Norris, I. T., Mathematics II, '94.
Norris, J., Mathematics I, '93.
O'Reilly, J. R., Political Economy I, '81.
O'Shea, J., English II, '92.
Parker, F. R., Greek I, '87; Latin I, '87.
Patterson, A. O., Latin I, '96; Greek I, '97.
Patterson, W. J., Mathematics I, '88; Political Economy I, '89; Philosophy I, '95.
Peacock, E. R., English I, '94; Political Science I, '94.
Peck, W. W., English I, '93; History I, '91; Political Science I, '92.
Pergan, P., History 1, '92.
Petapiece, A. W., Animal Biology III, '03.
Pettit, L., English III, '03.
Phalen, R. M., Politcial Economy II, '89.
Philp, J. H., Philosophy I, '03.
Pitts, F., Philosophy II, '97.
Playfair, A. W., Greek I, '95; Latin I, '96.
Porter, S. E., Animal Biology II, '96.
Polson, Susan C., English I, '95; History I, '96.
Pope, F. J., Chemistry I, '90; Zoology I, '91.
Powell, G. L., English III, '97.
Power, J. F., Botany I, '96; Animal Biology I, '96.
Power, J. J., History II, '00.
Quigley, J. P., Latin I, '03; Greek I, '03.
Race, W. B., French II, '03; English II, '03.
Ramsay, W., Latin I, '02; Greek II, '02.
Reid, Etta A., Mathematics I, '92.
Reid, G. M., French III, '99; English III, '98; German III, '99; Italian III, '99.
Reid, M. R., Botany I, '97; Animal Biology I, '97.
Reynolds, M., Animal Biology III, '02.
Robertson, A. M., Mathematics I, '96; Moderns I, '96.
Robertson, J. B., French II, '03; English III, '03; History III, '03.
Robertson, M. S., Moderns I, '80.
Rogers, C. S. G., Latin I, '00; Greek I, '01.
Rogers, J. E., English I, '95.
Rogers, W. C., Mineralogy I, '98.
Rose, G. W., Philosophy II, '98.
Ross, A. H. D., Mathematics II, '88; Chemistry I, '93; Zoology II, '93; Histology I, '93.
Ross, A. E., Latin II, '93; Greek I, '93; Sanscrit I, '93.
Row, R. K., Animal Biology II, '97; Botany I, '97.
Russell, W. J., Latin III, '00; Greek III, '00.

Ruttan, Emily, Mathematics II, '02.
Ryckman, F. F., English III, '98; History II, '98.
Ryerson, S. E., Mathematics I, '95.
Saunders, W. J., Botany I, '99; Biology I, '99.
Scott, C. A., Chemistry I, '85; Natural Science II, '85.
Sexsmith, M. E., History II, '02; Political Science III, '02.
Sexton, J. H., Botany I, '98; Biology I, '98.
Shannon, L. W., Chemistry I, '80.
Sharp, J., Political Economy I, '88: Philosophy II, '88; English I, '92.
Shaw, Lily, German II, '03; French III, '03.
Sheppard, F. W., Latin I, '02.
Shibley, G. R., Latin I, '01; Greek I' '01; English II, '02.
Shibley, H. T., Political Economy I, '80; History I, '82.
Shibley, Jennie, English III, '00.
Shibley, L., History I, '90.
Shorey, E. C., Chemistry I, '86; Natural Science I, '86.
Shortell, D. H., English I, '98; History I, '98.
Shortt, A., Philosophy I, '83.
Shortt, J. S., Latin II, '94; Greek I, '94; Political Science I, '97.
Shortt, E. J., Latin I, '96.
Sills, W. R., Mathematics I, '95.
Simpson, B. L., Mathematics II, '03.
Sinclair, E., English III, '97.
Sinclair, J., Political Economy I, '89.
Sinclair, J. A., Philosophy I, '90; Political Science I, '92.
Skelton, O., Latin I, '99; English I, '99; Greek I, '00.
Smellie, J. F., History II, '90.
Smirle, Harriette, English I, '02; History I, '03.
Smith, A. L., Greek I, '81; Latin I, '82; English Literature and History I, '83.
Smith, J. C., Latin I, '98; Greek II, '98.
Smith, J. H., Geology I, '92.
Smith, F. C., Animal Biology III, '97; Botany I, '97.
Smith. V. B., English II, '95; Italian II, '96; French III, '97; German III, '97.
Smythe, G. H., Latin III, '97; Greek II, '97.
Snell, J., Mathematics I, '90.
Snyder, H. Adell, English I, '94; History I, '97.
Solandt, D. M., Political Science I, '99.
Spooner, A. C., Moderns II, '96; English III, '96.
Stanley, J. N., Mathematics I, '01.
Staples, L. E., Geology I, '95.
Stewart, E. J., Greek II, '97.
Stewart, J., Philosophy I, '94.
Stewart, J. A., Mathematics I, '92.
Stewart, J. R., Animal Biology II, '03.
Stewart, W., Mathematics I, '79.
Story, Selina G., English I, '00; French I, '01; German I, '01; Italian I, '01.

Stratton, C. M., Chemistry II, '98; Botany II, '99.
Stubbs, S. J., English II, '99.
Tandy, H., French I, '00; German II, '00; Italian I, '00; English III, '00.
Tandy, W. R., English I, '99; Philosophy I, '00.
Taylor, J. A., Botany II, '97; Animal Biology II, '97.
Teskey, Kathleen, German II, '03; French I, '03.
Thompson, A. M., Latin I, '01; Greek I, '02.
Thompson, A. M., Latin I, '01.
Thompson, Edna G., German III, '03; French III, '03.
Thompson, Margaret J., French II, '93; Italian I, '93; German II, '94; English II, '94.
Thompson, P. .M,, Botany I, '98; Biology I, '98.
Thompson, T. J., Philosophy I, '92; English I, '95.
Turnbull, J. H., Philosophy I, '96.
Tyner, W. G., Chemistry II, '98; Biology III, '98.
Vaux, Lilian, English I, '02; Political Science I, '03.
Voaden, J., Botany I, '02; Animal Biology I, '02.
Volume, D. A., Political Science I, '97; History II, '98.
Walker, T. L., Chemistry I, '89; Botany II, '89.
Walks, R. H., English III, '00.
Wallace J., Latin I, '97; Greek I, '98; Philosophy I, '03.
Warren, F. R. W., Latin II, '00; Greek I, '01.
Warren, L. A. H., Mathematics I, '02.
Watson, E. C., Latin I, '95; Greek I, '95.
Weese, Metta, German II, '03; French II, '03.
Wells, E. J., Botany I, '03; Animal Biology I, '03.
White, J. W., Chemistry II, '88.
Whiting, C. C., Philosophy I, '02.
Williams, W. H., French I, '02; German I, '02; Italian I, '02; English II, '03.
Williamson, A. R. B., Chemistry I, '96; Animal Biology I, '96.
Williamson, E. J.; Italian I, '99; French I, '99; German I, '99; English I, '00.
Wilson, C. L. M., History II, '91; Moderns II, '91.
Wilson, H. L., Greek I, '88; Latin I, '88.
Wilson, R. A., English II, '01; Philosophy I, '02.
Windell, H. C., Latin I, '95; Greek I, '96.
Wood, I., Chemistry I, '91; Zoology I, '91.
Wright, J. J., Political Economy I, '87.
Young, J., English Literature and History I, '81.
Young, W., Animal Biology II, '95; Botany I, '95.
Youngson, Mary A., Botany III, '98.

Explanations of the Numbers Attached to the Names in the following List.

PREVIOUS TO 1892.

1. Gold Medallist in Classics.
2. Silver Medallist in Classics.
3. Gold Medallist in Mathematics.
4. Gold Medallist in Philosophy.
5. Gold Medallist in History and English Literature.
6. Gold Medallist in Political Economy.
7. Silver Medallist in Political Economy.
8. Gold Medallist in Chemistry.
9. Silver Medallist in Chemistry.
10. Silver Medallist in Modern Languages.
11. Silver Medallist in Natural Science.

1892 AND AFTERWARDS.

1. University Medallist in Latin.
2. " " Greek.
3*a*. " " German. } from 1903.
3*b*. " " French. } from 1903.
4. " " English.
5. " " History.
6. " " Philosophy.
7. " " Political Science.
8. " " Mathematics.
9. " " Chemistry.
10. " " Physics.
11*a*. " " Botany. } from 1903.
11*b*. " " Animal Biology. } from 1903.
20. " " Geology.
28. " " Mineralogy.

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12. Prince of Wales' Prize.
13. Governor General's Prize.
14. Gowan Prize; Botany.
15. Macpherson Prize.
16. Thornburn Prize.
17. Lewis Prize.
18. Latin Composition Prize.
19. Greek Composition Prize.
22. Maclennan Prize.
23. Carmichael Prize.
24. Chancellor's Prize.
25. Gowan Prize; Political Science.
26. Hague Prize.
27. English Verse Prize.

NOTE.—The University Medal is now the highest award in honours. Candidates must take all the honour papers in the work of the courses selected and no medal is awarded to any candidate who fails to obtain three-fourths of the whole number of marks.

LIST OF GRADUATES.

Graduates are requested to intimate to the Registrar, change of residence or any omission in the list.

Names marked with an asterisk are names of clergymen.

Name.	Date of Graduation.	Address.
Abbott, George A., M.D.	1895	Fort George, Iowa.
Abbott, Rodney H., M.D.	1879	Kingston.
Abbott, Samuel A., M.D.	1868	(Deceased).
Aberdeen, His Excellency the Earl of, LL.D.	1894	London, Eng.
Aberdeen, Her Excellency the Countess of, LL.D.	1897	London, Eng.
*Acheson, Stuart, B.A.	1887	Wiarton.
Adams, George T. C., M.D.	1892	Melbourne, Victoria.
Adams, Joseph, M.D.	1892	Michigan.
Adamson, Herbert A., M.D.	1892	Richmond, Utah, U.S.
Agnew, Andrew, B.A.	1865	
Agnew, John, B.A., 1859; M.A., 1872; M.D.	1865	(Deceased).
Alcombrack, R. W., B.A.	1895	44 Pine St., New York.
Alexander, Francis R., M.D.	1881	(Deceased).
Alexander, James A., M.D.	1869	Deceased).
Allan, Laura E., B.A.	1899	Marlbank.
Allen, Alfred G., M.D.	1887	Deadwood, S. Dakota.
Allen, James R., M.D.	1894	Olean, N.Y.
8Allen, John, M.A.	1904	Napanee.
Allen, Maggie D. (Hutcheon), M.A.	1895	Ottawa.
14, 8Allen, Thos. G., B.A., 1888; M.D.	1889	Chicago.
Allen, Emily, B.A.	1898	Kingston.
Allison, D., (President of Univ. of Mt. Allison College), LL.D.	1903	Sackville, N.B.
Allison, D. M., M.D.	1900	Adolphustown.
Allison, Mary L., B.A.	1902	Adolphustown.
Alway, Enoch, M.D.	1869	Bartonville.
Ames, James A., M.D.	1895	Rush, N.Y.
Ami, Henry M., M.A., D.Sc.	1892	Ottawa.
Amos, W. W., M.D.	1902	Kingston.
Amys, C. H., M.D.	1899	Lakefield.
Anderson, F. C., B.A.	1900	Napanee.
Anderson, James J., M.D.	1887	Smith's Falls.
Anderson, P. M., M.A.	1903	Belleville.
Anderson, M. W., M.D.	1888	Lumsden, N.W.T.

Name.	Date of Graduation.	Address.
Anderson, William J., M.D..	1894	Easton's Corners.
Anderson, William J., M.D..	1861	Smith's Falls.
Andrews, D., M.A..	1904	West Lorne.
Andrews, Francis, D.D..	1901	(Deceased).
Anglin, Francis R., B.A..	1895	Kingston.
Anglin, Harriet, B.A..	1901	Kingston.
Anglin, Robert W., M.A..	1897	Essex.
Anglin, James V., B.A., 1883; M.D..	1887	Montreal.
Anglin, Robert S., M.D..	1882	Omaha, Neb.
Anglin, Sarah E.,(Sparling) B.A.	1892	Montreal.
Anglin, William G., M.D., (Professor Queen's University...	1883	Kingston.
6, *Anthony, James, M.A..	1898	Waterdown.
Archibald, G. G., B.A..	1903	Truro, N.S.
Argyle, His Grace the Duke of, LL.D....	1879	Inverary Castle, Scotland.
Armour, James, B.A..	1886	Perth.
Armstrong, Albert, M.D..	1867	Arnprior.
Armstrong, Alfred, M.D..	1886	(Deceased).
Armstrong, C. C., M.D..	1898	Deseronto.
Arthur, Colin C., M.A...	1891	Cobourg.
Arthur, S. W., B.A., 1900; M.D.	1903	Inverary.
Ash, A. F., M.D..	1901	Kingston.
Ashton, John J., B.A....	1886	Newcastle.
Asselstine, David P., B.A..	1892	Kingston.
Asselstine, Elizabeth C., B.A....	1904	Kingston.
Asselstine, E. B., B.A..	1904	Wilton.
Asselstine, Henry A., B.A..	1876	
Asselstine, Robert W., B.A.....	1894	Kingston.
14Attwood, Albert E., M.A..	1896	Ottawa.
Austin, Griffin H., M.D..	1893	Cairo, N. Y.
*Awde, James, B.A..	1879	Niagara Falls.
11*a*Ayers, M. H., M.A..	1903	Beamsville.
Aykroyd, W. H., M.D..	1903	Railton.
Aylesworth, Archibald K., M.D.	1863	(Deceased.)
Aylesworth, F. A., M.D..	1903	Bath.
Aylesworth, F. L., B.A...	1902	Kingston.
Aylesworth, Mabel E., B.A..	1904	Bath.
Bailey, R. W., M.D..	1904	Kingston, Jamaica.
Bailey, W. L., M.A....	1904	Gravenhurst.
Bailie, Thomas H., M.D..	1892	
Bain, Angus U., B.A..	1888	C.P.R. offices, Toronto
12Bain, Hugh U., B.A., M.D....	1871	(Deceased.)
Bain, Hon. Mr. Justice J. F., B.A.	1867	Winnipeg.
*Bain, William, B.A., 1845; M.A., 1847; D.D..	1872	(Deceased.)
Bain, William G., B.A..	1886	(Deceased.)
Bain, William R.,B.A..	1863	

Name.	Date of Graduation.	Address.
Bajus, Carrie, B.A.	1901	Kingston.
Baker, Hat. M., (Thompson) M.A.	1892	(Deceased.)
Baker, H. S., B.Sc.	1902	Kingston.
Baker, Herbert W., B.A.	1891	Portage la Prairie.
Baker, J. C., B.Sc.	1903	Osnabruck Centre.
Baker, J. Y., B.A., 1896; M.D.	1899	Dalhousie Mills.
20Baker, M. B., B.A., 1900; B.Sc.	1902	Stratford.
Baker, Thomas C., M.D.	1888	Chatham.
Baker, William C., M.A.	1895	Kingston.
Baker, James G., B.A.	1897	Summerstown.
Balfe, T. H., M.D.	1882	Hamilton.
Ballagh, James H., B.A.	1878	Chicago.
Bamforth, Richard, B.A.	1897	Rednersville.
Bannister, Percy G., M.D.	1897	Edinburg, Scotland.
Bannister, J. A., B.A.	1898	Kingston.
Barber, Albert E., M.D.	1892	South Bend, Ind.
Barber, Vincent, M.D.	1897	Brooklyn, N.Y.
Barclay, William B. C., B.A.	1888	Arnprior.
Barker, Alexander N., M.D.	1893	(Deceased.)
Barnard, A. T., B.A.	1899	Hamilton.
Barnet, T. J., M.D.	1900	(Deceased.)
Barr, Janet, B.A.	1900	
Barrett, H. M., B.A.	1903	Windsor.
Bateman, Francis J., B.A.	1888	Christiana.
*6Bates, C. J. L., M.A.	1901	Tokio, Japan.
*Baxter, John C., D.D.	1878	Kirkaldy, Scotland.
*Bayne, James, D.D.	1865	(Deceased.)
10Beall, Arthur W., B.A.	1892	Kingston.
5Beaton, Alexander H., B.A.	1894	Toronto.
Beaton, Kate F., B.A.	1897	Orillia.
Beattie, John A., B.A.	1891	
Beattie, William, M.D.	1866	Wiarton.
Beatty, Elizabeth R., M.D.	1884	Brantford.
Beachard, David, M.D.	1887	Tecumseh.
Beckett, James, M.D.	1863	(Deceased.)
Beckett, S. E. J., B.A.	1903	Kintail.
*Beckstedt, I. N., B.A.	1899	Chesterville.
Beeman, Truman A., M.D.	1887	Mallorytown.
Beeman, Thomas W., M.D.	1878	Perth.
Beeman, William C., M.D.	1886	Ottawa.
Begg, Colin L., B.A.	1895	Orillia.
Begg, John W., M.D.	1888	Cartego, Costo Rico.
Begg, William P., M.A., D.D.	1896	Consecon.
Belch, John A., M.D.	1889	Syracuse, N.Y.
Belfour, P. F., B.A.	1899	Bath.
Bell, Alexander, M.D.	1865	Lakefield.
Bell, Andrew, B.A.	1853	Almonte.

Name.	Date of Graduation.	Address.
Bell, F. M., B.A.	1903	Kingston.
*Bell, George, B.A., 1845; LL.D.	1872	(Deceased.)
Bell, George, B.A.	1878	Toronto.
Bell, James M., M.D.	1857	(Deceased.)
9Bell, J. M., M.A.	1899	Almonte.
Bell, John, B.A., 1862; M.A., 1865; M.D.	1866	(Deceased.)
*Bell, John, B.A.	1890	(Deceased.)
Bell, John H., M.D.	1890	Kingston.
Bell, Josiah, B.A., 1864; M.A.	1877	
Bell, Robt., LL.D., Assist. Direc. Geological Survey of Can.).	1883	Ottawa.
*Bell, William, B.A.	1855	(Deceased.)
Bellamy, A. W., M.D.	1897	Irondoquoit, N.Y.
Bellamy, Mabel, B.A.	1901	Prescott.
*Bellis, George, D.D.	1880	(Deceased.)
Belton, W. J., M.D.	1892	(Deceased.)
*Bennett, Orr, B.A.	1886	Almonte.
Bennett, Charles V., B.A.	1894	Barrie.
Bennett, Henry, M.D.	1878	(Deceased.)
*Bennett, J. W. C., B.A.	1897	Bracondale.
Bennett, W. L., B.A.	1903	Port Hope.
Bennett, W. H., B.A.	1901	Berthier-en-haut, Que.
Benson, J. R., B.A., 1853; M.D.	1858	(Deceased.)
*Bergne, Samuel B., D.D.	1865	London, Eng.
Berlanquet, Hugh S., B.A.	1886	Admaston.
Bermingham, Mary E., (Macarow) M.D.	1882	Kingston.
Bermingham, F. H., M.D.	1892	New York, N.Y.
Bernard, Gerald, M.D.	1871	Newcastle-on-Tyne, England.
Bernstein, J. S., M.A.	1898	New York City.
Berry, George H., M.D.	1895	Westport.
Bertram, Thomas A., M.D.	1885	Dundas.
Best, Isabel M., B.A.	1901	Peterboro.
Bethune, Alexander, M.D.	1858	Seaforth.
Bethune, Harry F., M.D.	1869	Clanbrassie.
Bethune, William, B.A.	1864	
Betts, Alfred H., M.D.	1875	(Deceased.)
Betts, John H., M.D.	1881	(Deceased.)
Beveridge, Alice B., (Porteous) B.A.	1892	Jersey City.
Bice, Mark, M.D.	1869	Mount Brydges.
Biggar, George W., M.D.	1862	Grimsby.
Bigham, Hugh, M.D.	1864	(Deceased.)
Bigham, James, M.D.	1868	Peterboro.
Bigham, John, M.D.	1865	(Deceased.)

Name.	Date of Graduation.	Address.
Billings, T. H., M.A.	1902	Lyn, Ont.
Bilton, William J., M.D.	1892	(Deceased.)
*Binnie, James, B.A., 1889; M.A., 1890; B.D.	1892	Tweed.
Birch, BeatriceD., B.A.	1904	Kingston.
Bird, Francis W., M.D.	1859	(Deceased.)
Bird, Nelson J., M.D.	1860	San Francisco, Cal.
Birkett, F. W., M.D.	1898	Ottawa.
Bishop, C. P., B.A.	1900	Athens.
Bissonnette, Julian D., B.A., 1880; M.D.	1892	Stirling.
*Black, Armstrong, D.D.	1900	Toronto.
Black, Benjamin F., M.D.	1893	
Black, B. S., B.A.	1904	Kingston.
Black, Jean B., B.A.	1904	Hamilton.
Black, H. H., B.A., 1898; M.A.	1899	Kingston.
*Black, John, D.D.	1876	(Deceased.)
Black, John A., B.A.	1891	Massie.
Black, William A., M.D.	1862	(Deceased.)
Blakeley, Robert, M.D.	1861	(Deceased.)
Bland, Rev. Salem (Professor of Wesley College), D.D.	1903	Winnipeg, Man.
Blaylock, Ella, M.D. (Atherton).	1887	Nashua, New Hamp.
Bleasdell, Charles E., M.D.	1868	(Deceased.)
Bleecker, G. H., M.D.	1902	Trenton.
Bloor, W. R., M.A.	1902	Ingersoll.
Boddy, Martha, B.A.	1894	Owen Sound.
Bogart, I. G., M.D.	1901	Kingston.
Bogart, J. L. H., B.Sc.	1903	Kingston.
20, 28Bolton, L. L., M.A.	1903	Portland.
Bonner, John, B.A., 1845; M.A.	1847	(Deceased.)
Booth, Donald B., M.D.	1868	(Deceased.)
Borden, Robert L., K.C., M.P., LL.D.	1903	Halifax, N.S.
*Borley, H. D., B.A.	1903	South Bend, Ind.
Boucher, Joseph A., M.D.	1894	Watertown, Mass.
Bouchier, H. P., B.A.	1853	(Deceased.)
Bourinot, John G., LL.D.	1887	(Deceased.)
Bourns, Thomas C., M.D.	1892	Whitney.
Bourns, William H., M.D.	1892	Adison.
Bovey, Henry T., M.A., LL.D., (Prof., McGill University).	1893	Montreal.
Bowen, George H., M.D.	1887	Gananoque.
Bowen, Robert, M.D.	1865	H. M. Service.
Bowerman, John T., M.A.	1891	Ottawa.
Bowers, Samuel S., M.D.	1857	Fond du Lac, Wis.
Bowie, H. A., M.D.	1901	Kingston.
Boyd, Agnes M., B.A.	1904	Kingston.

Name.	Date of Graduation.	Address.
Boyd, Annie A., B.A., 1897; M.A.	1898	Kingston.
Boyd, Edward, LL.D.	1863	
*Boyd, John D., B.A.	1889	Kingston.
Boyd, M. E., B.A.	1898	Kingston.
Boyle, Arthur A., M.D.	1859	Toronto.
Boyle, Joseph, B.A., 1891; M.D.	1896	Casselman.
*Boyle, W. H. W., B.A.	1884	Minneapolis.
Bradlev, Gordon F., B.A.	1890	
Brady, James, M.D.	1891	Rochester, N.Y.
Brandon, J. S., B.A.	1899	Trail, B.C.
Brandon, W. M., B.A.	1899	Ancaster.
Branigan, P. K., M.D.	1862	(Deceased.)
Branscombe, M. E., B.A., 1903; M.D.	1904	Picton.
Bray, John L., M.D.	1863	Chatham, O.
Breuls, I. D., B.A.	1900	Port Hope.
Brick, N. W., B.A.	1903	Kingston.
12Briden, William, B.A.	1880	Ingersoll.
Bridge, B. B., M.D.	1900	Albert City, Iowa.
Bridgeland, Samuel, M.D.	1870	Bracebridge.
Brien, James, M.D.	1872	Essex Centre.
25Brisco, N. A., B.A., 1898; M.A.	1900	Napanee.
Britton, A. H., B.A.	1903	Toronto.
Britton, Edward H., B.A.	1884	Kingston.
Britton, Mildred G.,(Brock) B.A	1899	Kingston.
28Brock, Reginald W., (Acting Professor, School of Mining), M.A.	1895	Geol. Dept., Ottawa.
Brokenshire, W. H., B.A.	1902	
Brough, Thomas A., B.A.	1893	Kamloops, B.C.
Brown, Albert H., B.A.	1896	Ottawa.
Brown, Amelia, B.A.	1898	Kingston.
Brown, Frederick M., B.A.	1890	Kingston.
Brown, G. A., B.A.	1904	Oak Grove.
Brown, George E. J., LL.B.	1894	Creemore.
Brown, Jonathan, M.D.	1893	New Lothrop, Mich.
*Brown, James A., B.A.	1883	Agincourt.
5, 22Brown, J. C., B.A., 1894; M.A	1896	Williamstown.
Brown, J. G. Williston, B.A.	1890	Charlottetown, P.E.I.
Brown, J. W., B.A.	1901	Hanover.
Brown, Marshall J., M.D.	1856	Kingston.
Brown, Sara A., M.D.	1890	
Brown, T., B.Sc.	1904	Hawkesbury.
*6Brown, T. C., B.A., 1903; M.A.	1904	Richmond.
Brown, W. C., M.D.	1904	Bellview.
Brown, William G., B.A.	1881	
Brown, W. T., B.A.	1901	
Bruce, Frederick, M.D.	1886	Mount Morris, Mich.
*Bryan, Andrew C., B.D.	1895	Westport.

Name.	Date of Graduation.	Address.
Bryan, George J., B.A..	1888	Regina, Assa.
Bryan, Hugh W., B.A., 1893; M.A..	1894	Brockville.
Bryant, J. F., B.A..	1901	Prince Albert, N.W.T.
Bryce, Walter, B.A..	1896	Toronto.
Brydon, R., B.A..	1903	Oustic.
Brymner, Douglas, LL.D..	1892	(Deceased.)
Bryson, Mary G., B.A..	1899	Ottawa.
Buchanan, H. M., M.D..	1889	St. Lawrence, N.Y.
*Buchanan, John H., B.A. (Medical Missionary)	1885	Amkhut, India.
Buchanan, Mabel A., B.A..	1904	Lanark.
Buckley, Patrick D., LL.B..	1863	(Deceased.)
Bullis, William H., M.D..	1884	Rochester, N.Y.
Burdett, Harry E., M.D..	1886	St. Paul, Minn.
Burger, C. H., M.D..	1898	Kingston, Jamaica.
Burgess, H. H., B.A..	1899	Owen Sound.
Burgess, Jas. E., B.A., 1868; M.A.	1876	London.
Burns, Clement B., B.A..	1890	Ottawa.
*Burns, James C., D.D..	1884	(Deceased.)
*Burns, Samuel S., B.A..	1894	Stirling.
15Burns, William, B.A..	1886	Vancouver, B.C.
Burr, Lenne G., B.A..	1903	Ameliasburg.
20, 28Burrows, A. G., M.A., 1900; B.Sc..	1902	Napanee.
Burrows, John G., M.D..	1891	Marlbank.
*4, 6Burton, Robert, M.A..	1898	(Deceased.)
Burton, S., M.D..	1900	Redfield, Oswego Co., N.Y.
*Burwash, N. (Chancellor of Victoria University) LL.D.....	1903	Toronto.
Butler, Tobias J., M.D..	1895	34 Thorp St., Chicago
Byers, Robert P., B.A..	1893	Avoca, Que.
*Byrnes, J. D., B.A., 1898; B.D..	1901	Gore Bay.
Byrnes, Marie, B.A..	1903	Cumberland.
*Caie, George J., B.A..	1861	Forfar, Scotland.
Caldwell, Daisy, B.A..	1901	Sydenham.
*Caldwell, J. A., B.A..	1902	Watson's Corners.
Caldwell, J. S., B.A..	1904	Watson's Corners.
Caldwell, Maxwell, B.A..	1904	Lanark.
Caldwell, William C., B.A..	1866	Lanark.
2Calhoun, A., M.A..	1902	Ottawa.
Callfas, W. F., M.D..	1898	St. Louis, Mo.
Calvin, D. D., B.A..	1902	Kingston.
Calvin, J. D., B.A..	1904	Kingston.
Calvin, Marion, B.A..	1901	Kingston.
Camelon, Thomas P., M.D..	1890	Chicago.
Cameron, Alexander D., M.D...	1882	(Deceased.)

Name.	Date of Graduation.	Address.
Cameron, A. E., B.A.	1903	Wemyss.
Cameron, A. R., B.A.	1903	Morrisburg.
Cameron, C. Alice, B.A.	1888	Boston, Mass.
*Cameron, Charles I., B.A., 1861; M.A.	1868	(Deceased.)
1*Cameron, Charles J., B.A., 1886; M.A.	1887	Philadelphia, Pa.
Cameron, Dan, M.D.	1887	(Deceased.)
*Cameron, Hugh, B.A.	1876	Morrisburg.
Cameron, James C., B.A., 1888; LL.B.	1896	Cornwall.
Cameron, John, B.A.	1864	
*Cameron, James Y., M.A.	1865	(Deceased.)
Cameron, Wm. A., B.A., 1887; M.D.	1890	
Cameron, Jessie, B.A.	1897	Almonte.
Campbell, Albert L., M.D.	1889	Mount Amherst, Ohio
*Campbell, Alexander, B.A.	1862	Broadview, Assa.
*Campbell, Alexander J., D.D.	1887	Geelong, Aus.
Campbell, Annie G., (Macgillivray) B.A.	1891	Kingston.
*Campbell, Colin D., B.A.	1896	New Denver, B.C.
Campbell, Daniel, B.A.	1904	Eganville.
Campbell, Donald, B.A.	1850	(Deceased.)
Campbell, George, M.D.	1859	H. M. Navy.
*Campbell, George D., B.A.	1895	Chalk River.
Campbell, J. A., B.A.	1900	Keene.
Campbell, James W., M.D., Professor, Queen's University	1891	Kingston.
*Campbell, John, B.A., 1847; M.A	1850	(Deceased.)
*Campbell, John, (Acting-Principal, Presbyterian College), D.D.	1903	Montreal.
Campbell, John H., M.D.	1856	(Deceased.)
Campbell, Joseph, M.D.	1867	Ontario, N.Y.
Campbell, Joseph S., M.D.	1890	Ontario, N.Y.
Campbell, Lizzie V., B.A.	1899	Smith's Falls.
*Campbell, Neil, B.A.	1883	Oso Station.
Campbell, Peter McG., B.A., 1892; M.D.	1896	Cardston, N.W.T.
*Campbell, Robert, B.A., 1856; M.A., 1858; D.D.	1887	Montreal.
*Campbell, Robert, B.A., 1867; M.A., 1870; D.Sc.	1884	Perth.
*Campbell, J. Fraser, D.D.	1897	Rutlam, Cen. India.
Carey, N., M.D.	1903	Kingston.
Carefoot, G. A., B.A.	1904	Newmarket.

Name.	Date of Graduation.	Address.
Carmichael, Andrew, M.D.	1861	Sundridge.
*6Carmichael, Harvey, M.A.	1897	Spencerville.
*Carmichael, James, D.D.	1892	King, Strange.
Carmichael, James F., B.A.	1887	
2Carmichael, Norman R., (Prof., Queen's University) M.A.	1890	Kingston.
Carmichael, R. F., B.A., 1900; M.D.	1900	(Deceased.)
Carr-Harris, F. F., M.D.	1901	Kingston.
Carruthers, J. S., M.D.	1904	New Glasgow, N.S.
Cartwright, Alexander D., B.A.	1885	Toronto.
Cartwright, Richard C., M.D.	1884	Rochester, N.Y.
Carscallen, Allen B., M.D.	1875	Enterprise.
Carscallen, W. E., M.D.	1897	Tamworth.
Caskey, J. C., M.D.	1904	Tweed.
Carswell, Jennie, B.A.	1896	Renfrew.
Case, George H., M.D.	1876	(Deceased.)
Casselman, Joseph, M.D.	1886	
*Cattanach, James, B.A.	1889	
Cattanach, Jessie S., B.A.	1904	Williamstown.
*Cattanach, John C., B.A., 1868; M.A.	1881	(Deceased.)
*Caven, William, D.D., (Principal Knox College)	1875	Toronto.
Cavers, T. W., B.Sc.	1904	Carleton Place.
Chaffey, Ellsworth, M.D.	1871	Santa Monica, Cal.
Chamberlain, T. F., M.D., Insp. Prisons	1862	Toronto.
Chamberlain, Watson P., M.D.	1888	Toronto.
Chambers, Alice, B.A.	1888	Los Angeles, Cal.
Chambers, Daniel, M.D.	1855	(Deceased.)
Chambers, Mary M.,(Lavell)B.A	1891	Smith's Falls.
*Chambers, Robt., B.A., 1866; D.D	1897	Bardezag, Ismidt, Turkey in Asia.
Chambers, R., jr., M.A.	1902	Bardezag, Ismidt, Turkey in Asia.
Chambers, William, B.A.	1883	Los Angeles, Cal.
Channonhouse, John, M.D.	1863	Eganville.
Channonhouse, R. C., M.D.	1889	Richmond.
Channonhouse, Thomas, M.D.	1860	(Deceased.)
Chapman, A. B., M.D.	1899	Reston, Man.
Chapman, Edward J., LL.D.	1867	(Deceased.)
*Childerhose, Stephen, B.A.	1884	Parry Sound, Ont.
Chisholm, James, B.A., LL.D.	1892	Hamilton.
*Chisholm, John, B.A.	1878	Kemptville.
Chisholm, Harvey F., M.D.	1857	(Deceased.)
11Chisholm, William I., M.A.	1894	Kincardine.
Chown, Albert P., M.D.	1890	Kingston.

Name.	Date of Graduation.	Address.
Chown, Henry H., M.D., (Dean of Medical Faculty, University of Manitoba) 1880; LL.D.	1903	Winnipeg, Man.
Chown, George Y., B.A., (Registrar, Queen's University)	1884	Kingston.
Chown, Stanley T., B.A.	1889	Renfrew.
Chrysler, Francis H., B.A.	1866	Ottawa.
Clancey, Charles C., M.D.	1883	Port Huron, Mich.
3*b*Clark, Grace, M.A.	1904	London.
Clark, John K., B.A.	1895	Franklin, Man.
Clark, Richard J., M.A.	1895	Nelson, B.C.
*Clark, Wm., (Professor, Trinity Univ.), M.A., D.C.L., D.D.	1902	Toronto.
Clark, W. C. D., M.D.	1885	Toronto.
Clark, William T., B.A.	1895	Morrissey, B.C.
Clarke, G. W., B.A., 1898; M.A.	1899	Grand Forks, B.C.
Clarke, James, M.D.	1868	Bay City, Mich.
Clarke, John, M.D.	1872	(Deceased.)
Clarke, Joseph A., M.A.	1882	(Deceased.)
Clarke, John G., M.D.	1880	Meaford.
Clarke, J. T. A., B.A.	1899	Lander, Man.
Clark, L. J., B.A.	1898	Toronto.
Clarke, William, M.D.	1879	Ireland.
*Clarke, William C., B.A.	1855	(Deceased.)
Clark, Hon. Wm. Mortimer, (Lieutenant-Governor of Ontario) LL.D.	1903	Toronto.
Claxton, George, B.A.	1876	Gladstone, Man.
*Claxton, John A., B.A., 1878; B.D.	1886	Cochrane, Alta.
Claxton, William, M.D.	1874	Verona.
Cleary, J. P. S., B.A.	1900	
Cleaver, [illegible] C., M.A.	1879	
Cleaver, William F., M.D.	1879	Wigan, England.
Clerihew, Ernest M., M.D.	1890	New York.
Clinton, George, M.D.	1878	Belleville.
Cloney, S. Louise, M.A.	1897	St. Catharines.
Cloutier, Felix, M.D.	1889	Crysler.
Cluness, Wm. R., B.A., '55; M.D.	1859	
Clyde, William, B.A., 1885; M.A.	1887	Petrolea.
Coad, Edith, B.A.	1902	Brockville.
Cochrane, James B., B.A.	1891	Kingston.
Cochrane, Rt. Hon., 12th Earl of Dundonald, LL.D.	1904	Ottawa.
Cody, Rev. H. J., (Professor, Wycliffe College) D.D.	1903	Toronto.
Cogan, Jeremiah R., M.D.	1861	(Deceased.)
Coleman, William F., M.D.	1863	163 State St., Chicago

Name.	Date of Graduation.	Address.
Collier, W. H., B.A..	1898	
Collins, Cornelius, M.D..	1886	(Deceased.)
9Collinson, J. C., M.A..	1898	Kingston.
Collinson, G. W., M.D..	1898	Brinston's Corners.
Comer, Alexander T., M.D.. ...	1864	New York.
Conboy, Daniel, B.A..	1888	
Condell, Wm. N., M.D..	1898	Spencerville.
*7Conn, James R., M.A..	1896	Napanee.
3Connell, James C., B.A., 1884; M.A., 1885; M.D., (Professor, Queen's University).. ..	1888	Kingston.
Connell, Jessie C., (Binnie) B.A.	1892	Tweed.
Connell, J. V., M.D..	1902	Spencerville.
Connell, W. T., M.D., (Professor Queen's University)..	1894	Kingston.
Conner, F. E., M.D..	1899	Macdonald, Man.
Connerty, J. Moore, M.D..	1886	Smith's Falls.
Connolly, A. K., M.D...	1904	Kingston.
Connolly, E. W., M.D..	1900	Duncan's Mills.
3Connolly, Henry A., M.A..	1885	Cookshire, Que.
Cook, Gertrude A., B.A..	1903	Stratford.
*Cook, John, LL.D..	1880	(Deceased.)
Cooke, John A., B.A..	1884	Morrisburg.
Cooke, William H., M.D..	1888	Minneapolis, Minn.
Coon, Darius A., M.D..	1890	Elgin.
Cooper, E. G., M.D..	1899	Calabogie.
Copeland, George T., B.A.. .. .	1889	Cornwall.
Corbett, George H., M.D..	1856	(Deceased.)
Corbett, Henry T., M.D..	1868	(Deceased.)
Corkill, Edward J., B.A..	1886	Sarnia.
Corkill, E. T., B.Sc..	1904	Sydenham.
Corliss, Margaret A., M.D.. .. .	1885	Australia.
*Cormack, James, B.A..	1872	Maxville, Ont.
Cormack, John H., M.D..	1893	Ottawa.
Cornell, Albert P., M.D..	1882	(Deceased.)
Cornell, Stanley S., M.D..	1886	Athens.
*Cornett, William H., B.A.. ...	1887	Cleveland, O.
Corrigan, D. J., M.D..	1898	West Webster, N. Y.
Corry, Robert, M.D..	1861	(Deceased.)
*Cosgrove, Thomas A., B.A.. ..	1887	St. Mary's.
Costello, T. J., M.D..	1904	Calgary.
Coughlin, Richard, M.D..	1881	Hastings.
Countryman, John E., M.D.. ..	1893	Drayton, N. Dak.
*Coussirat, Daniel, B.D., D.D., (Prof., McGill University)..	1893	Montreal.
Coutlee, Hillier Noel, M.D.. ...	1882	Sharbot Lake.
Cowan, S. G., B.A..	1901	Peterboro.

Name.	Date of Graduation.	Address.
14Cowley, R. H., B.A., 1889; M.A	1893	Ottawa.
Cox, John, (Professor, McGill University) LL.D.	1903	Montreal.
Coy, William F., M.D.	1886	Kingston.
Craft, Robert A., M.D.	1895	
Craig, Hugh A., M.D.	1878	(Deceased.)
Craig, H. B. R., B.Sc.	1903	Kingston.
Craig, James J., B.A.	1874	Mount Forest.
Craig, J. D., B.A., 1897; B.Sc.	1900	Ottawa.
*Craig, Robt. J., B.A., 1871; M.A.	1874	Kingston.
Craig, William, B.A.	1858	(Deceased.)
Craine, Agnes D., M.D.	1888	Smith's Falls.
*Cram, W. H., B.A., 1895; B.D.	1900	Cobden.
Cranston, James G., M.D.	1860	Arnprior.
Cranston, James J., M.D.	1895	Arnprior.
Crawford, Joseph, M.D.	1857	(Deceased.)
12Crawford, Robert, B.A.	1869	Kingston.
*Crawford, W. F., B.A., 1900; B.D.	1903	Brockville.
Creeggan, Jno. G., B.A., 1878; M.D.	1886	Delta.
Creighton, J. E. (Sage Professor, Cornell University), LLD.	1903	Ithaca, N.Y.
Crews, J. W., M.D.	1902	Rochester, N.Y.
Croft, L. V., B.A.	1899	Middleville.
Croskery, Robert A., B.A.	1896	Morrisburg.
Croskery, E. A., M.D.	1897	Trelona, Wyo.
Crozier, J. A., B.A.	1897	
Cryan, Georgina (Fraser), B.A.	1898	Uxbridge.
Cryan, John, M.D.	1883	Demorestville.
Cryan, J. H., M.D.	1903	Demorestville.
*Cumberland, Jas., B.A., 1877; M.A.	1880	Stella.
Cumberland, Thomas, M.D.	1884	(Deceased.)
12Cumberland, Judge Thos. D., B.A.	1875	Brandon.
Cumming, Lucy, B.A.	1903	Lyn.
Cummings, J. G., B.A.	1898	
Cunningham, Arthur B., B.A.	1891	Kingston.
Cunningham, Dav., B.A., 1887; M.D.	1890	(Deceased.)
Cunningham, Henry C., M.D.	1885	Carman, Man.
Curle, William, B.A., 1889; M.A.	1890	Toronto.
*Curran, Wm. B., B.A., 1859; M.A.	1870	Colwich Rectory, Nottingham, Eng.

Name.	Date of Graduation.	Address.
*Currie, Arch., B.A., 1858; M.A.	1861	Sonya.
*Currie, John, D.D., (Professor, Theological Hall)	1885	Halifax.
Currie, P. W., B.Sc.	1901	Ottawa.
Curry, James W., B.A.	1878	Toronto.
Curtin, T. V., M.D.	1901	Brockville.
Dalton, G. F., B.A., 1898; M.D.	1902	Kingston.
*Daly, Charles H., B.A.	1890	Lyn.
Daly, Wilberforce, B.A.	1880	
Dame, Alexander A., M.D.	1886	Toronto.
Dandeno, J. B., B.A.	1895	
*D'Argent, William E., B.A.	1884	Hammond, Ind.
Dark, T. A., M.A.	1904	Wicklow.
Darragh, Robert J., M.D.	1886	
David, Alfred, M.D.	1873	
David, William C., M.D.	1889	West Bay City, Mich.
Davies, Ransom A., M.D.	1876	Easton's Corners.
Davis, Bidwell N., B.A.	1881	Toronto.
Davis, John J., M.D.	1894	New York, N.Y.
Davis, Lewis T., M.D.	1883	Nanaimo, B.C.
Davis, Robert H., M.D.	1858	York, Grand River.
Davis, Sydney N., M.D.	1891	York.
Davis, William H., M.A.	1893	
Davis, J. S., B.A.	1898	Ottawa.
Davis, N. A., M.D.	1898	Fallowfield.
Davidson, Myers, M.D.	1864	(Deceased.)
*Dawson, Æneas McD., LL.D.	1886	(Deceased.)
*Dawson, Alexander, B.A.	1859	Parkdale.
Dawson, George M., LL.D.	1890	Ottawa.
Dawson, Henry G., M.D.	1885	Cape Vincent, N.Y.
Dawson, Annie L., B.A.	1898	Ompah.
Day, Alfred E., B.A., 1895; M.A.	1896	Kingston.
Day, Barnabas W., M.D.	1862	San Diego, Cal.
Day, H. E., M.D.	1902	Kingston.
Day, Henry W., M.D.	1859	(Deceased.)
Day, Jonathan, M.D.	1877	(Deceased.)
Day, Lewis E., M.D.	1880	(Deceased.)
Day, Walter D. P. W., M.D.	1871	(Deceased.)
Day, Isaac, B.A.	1898	Orillia.
Deacon, M. Alberta, B.A.	1900	Brockville.
Dean, Marshall B., B.A.	1895	
Deans, George, M.D.	1865	(Deceased.)
Deans, William C., M.D.	1861	(Deceased.)
de la Matter, Cornelia, B.A.	1900	Brown's Nurseries.
DeLong, E. W., M.D.	1904	Gananoque.
Demorest, Clara, M.D.	1890	Napanee.
Dempster, J. H., B.A.	1899	London.

Name.	Date of Graduation.	Address.
Denaut, Henry J., M.D.	1892	South Bend, Ind.
Denike, George H., M.D.	1882	
Dennis, E. M., B.Sc.	1904	Woodstock.
Dennistoun, Robert M., B.A.	1885	Peterboro.
Densmore, L. D., M.D.	1901	Maitland, N. S.
Denyes, James M., B.A.	1895	Newburgh.
Detlor, W. T., B.A.	1899	Napanee.
Devlin, J. L., M.D.	1899	
*Dewar, Donald L., B.A.	1886	Ailsa Craig.
Deynard, Adelbert B., M.D.	1875	New York.
Dickey, J. S., M.D.	1903	North Williamsburg.
Dickson, Andrew F., M.D.	1890	
Dickson, Annie E., M.D.	1886	(Deceased.)
Dickson, Charles R., M.D.	1880	Toronto.
9Dickson, C. W., M.A.	1900	Kingston.
Dickson, John R., M.D.	1863	(Deceased.)
Dickson, John R., M.D.	1868	(Deceased.)
Dickson, M. Evelyn, B.A.	1902	Kingston.
Dingman, William E., M.D.	1875	Listowel.
Dingwall, J., B.A.	1903	Cornwall.
Dingwall, James, B.A.	1861	Cornwall.
Dingwall, M., B.A.	1903	Cornwall.
Dixon, John W., M.D.	1890	Burlington, Iowa.
Dixon, Mortimer L., M.D.	1886	Frankville.
5Dolan, G., B.A.	1899	Carleton Place.
Dolan, John H., B.A.	1897	Picton.
*Donald, William, D.D	1861	(Deceased.)
Donald, William, B.A.	1873	Pilot Mound, Man.
5, 7Donnell, J. A., M.A.	1902	Kingston.
Donnelly, J., jr., M.E.	1898	Kingston.
Donovan, Edward, M.D.	1886	Langdon, Dak.
Donovan, Mary (Melville), B.A.	1892	Bakersville, Vt.
Donovan, Patrick C., M.D.	1879	Neche, N. D.
Douglas, Harry E., M.D.	1892	Muncie, Ind.
Douglas, H. E. N., M.D.	1897	Kingston, Jamaica.
Douglas, James, B.A.	1858	99 John St., N.Y.
Douglas, Robt., B.A., 1851; M.D.	1855	(Deceased.)
Dow, John Ball, B.A.	1875	Whitby.
Downing, James J., B.A.	1881	(Deceased.)
Downing, Jos. J., B.A., '92; M.D.	1896	Chesley.
Downing, William H., M.D.	1888	(Deceased.)
Dowsley, David H., M.D.	1875	Ottawa.
Dowsley, George C., M.D.	1875	Gore Bay.
Dowsley, W. C., M.A.	1898	Frankville.
Doyle, J. D., M.D.	1898	Brooklyn, N. Y.
Drennan, Ethel, B.A.	1900	Kingston.
Drennan, Jennie G., M.D.	1895	St. Thomas.

Name.	Date of Graduation.	Address.
Driscoll, A. C., M.D.	1904	Trenton.
Drummond, Andrew T., B.A., 1860; LL.B., 1863; LL.D.	1896	Toronto.
*Drummond, Daniel R., B.A., '89; M.A., 1890; B.D.	1892	St. Thomas.
Drummond, Francis A., B.A.	1877	Winnipeg.
Drummond, Peter, M.D.	1889	Grant, Mich.
*Drummond, William J., B.A.	1885	Nanking, China.
Drummond, S. J., M.D.	1897	Casnovia, Mich.
*Duclos, John E., B.A.	1884	Valleyfield.
*Duff, A., D.D.	1903	Bradford, Eng.
Duff, John, M.D.	1889	(Deceased.)
Duff, H. Ramsay, M.D.	1884	Kingston.
4Duff, J., M.A.	1899	Kingston.
Duff, K. Isobel, M.A.	1904	Otonabee.
Dugdale, John J., M.D.	1867	(Deceased.)
Dumble, Thomas H., M.D.	1877	(Deceased.)
Dumble, William C., M.D.	1877	Toronto.
*Dumoulin, Bishop John P., M.A.	1870	Hamilton.
Dunbar, Neil, B.A.	1854	(Deceased.)
Dunbar, Samuel, M.D.	1855	(Deceased.)
1, 18Duncan, T. S., M.A.	1904	Westport.
Dunkley, A. W., M.A.	1899	Orangeville.
Dunkley, W. G., B.A.	1902	Picton.
Dunlop, James D., M.D.	1887	Alpena, Mich.
Dunlop, J. E. S., B.A.	1904	Ventnor.
*15Dunlop, John G., B.A., 1887; M.A.	1891	Japan.
Dunlop, Neil, M.D.	1861	Sydenham.
Dunn, Andrew T., M.D.	1864	North Augusta.
Dunning, J. C., M.D.	1897	Chicago, Ill.
Dupuis, Charles B., B.A.	1887	(Deceased.)
Dupuis, Eugene L., M.D.	1890	Seattle, Wash.
8Dupuis, James M., M.D.	1881	(Deceased.)
Dupuis, Nathan F., (Dean, Faculty of Practical Science, Queen's University), B.A., 1868; M.A.	1868	Kingston.
Dupuis, Thomas R., M.D.	1860	(Deceased.)
Durie, C. L., B.A.	1899	Ottawa.
Dwyer, E., B.Sc.	1902	Kingston.
Dwyer, J. G., M.A.	1902	Kingston.
Dwyre, Andrew W., M.D.	1885	Perth.
*Dyckman, Henry M., B.A.	1887	Pottstown, Penn.
Dyde, Chas. A., B.A., 1894; M.D.	1897	
Dyde, Geo. E., B.A., 1889; M.A.	1897	(Deceased.)
1, 4Dyde, S. W., (Professor, Queen's University), B.A., 1883; M.A., 1884; D.Sc.	1887	Kingston.

Name.	Date of Graduation.	Address.
*Eakin, Joseph F., B.A..	1866	(Deceased.)
Earl, William M., M.D..	1890	Bishop's Mills.
Eastman, F. S., B.A..	1903	Smithville.
*6Easton, William H., M.A.. ..	1893	
Echlin, Edm. J. B., B.A., 1899; M.D..	1891	Ottawa.
*Edmison, Henry, B.A., '63; M.A.	1866	Rothsay, Ont.
Edmison, G. A., B.A..	1898	Rothsay.
*Edmison, J. H., B.A..	1898	Cheltenham.
Edwards, C. B., B.A..	1900	London, Ont.
Edwards, Cephas H., B.A..	1896	Keene.
Edwards, J. W., B.A., 1900; M.D.	1900	Cataraqui.
Eldon, R. H., B.A..	1901	Toronto.
Elliott, Arthur R., M.D..	1889	Chicago.
Elliott, Edwin, B.A..	1886	Kingston.
Elliott, Gilbert John, Earl of Minto, G.C.M.G., LL.D..	1899	Ottawa.
Elliott, H. H., M.D..	1898	Seeley's Bay.
*Elliott, Jas., Ph.D..	1904	Montreal.
Elliott, John, B.A..	1889	Leamington.
Elliott, Thomas A., B.A..	1879	
Elliott, Walter H., B.A..	1894	Hamilton.
Ellis, F. J., M.D..	1903	Ellisville.
Ellis, G. E., B.A..	1901	Ellisville.
Elmer, William W., M.D..	1858	Spokane Falls, Wash.
Elwell, W. D., M.D..	1863	(Deceased.)
Embury, Alex. T., M.D..	1896	Belleville.
Embury, Elizabeth, MD..	1888	Belleville.
Emery, George F., M.D...	1889	Gananoque.
Emery, Horatio J., M.D..	1884	
Empey, Charles T., M.D..	1880	Cross Hills, Leeds, Eng.
Empey, William A., M.D..	1881	Spencerville.
Erly, Francis W. J., M.D..	1868	(Deceased.)
Errett, Alfred J., M.D..	1887	(Deceased.)
Errett, Bessie D., B.A..	1904	Chatham.
Eshoo, S. O., M.D..	1902	Oroomiah, Persia.
*Etherington, Edward J., B.A...	1891	Sunderland.
Etherington, F., M.D...	1902	Portsmouth.
Evans, Henry, M.D..	1858	(Deceased.)
Evans, Henry A., M.D..	1878	(Deceased.)
*Evans, Joseph, B.A., 1855; M.A.	1857	Rowland.
Ewart, W. M., B.A..	1898	Smith's Falls.
Ewing, Florence M., B.A...	1903	Cataraqui.
11Ewing, William C., M.A.. ...	1895	Renfrew.
Fadden, W. S., M.D..	1898	Aultsville.

Name.	Date of Graduation.	Address.
Fahey, E. W., M.D.	1901	Kingston.
Fairbairn, Archibald C., M.D.	1871	Minneapolis, Minn.
Fairfield, Charles A. D., B.A.	1887	St. Catharines.
Fairlie, M. F., B.Sc.	1902	Kingston.
Falconer, John P., B.A.	1889	Sydney, C. B.
Falkner, A. D., M.D.	1904	Williamstown.
Falkner, J., B.A.	1903	Williamstown.
Farley, Frank J., M.D.	1894	Trenton.
Farrell, Alexander G., B.A.	1885	Smith's Falls.
Farrell, James M., B.A.	1889	Kingston.
Farrell, J. T., M.D.	1861	(Deceased.)
Farrell, Thomas H., B.A., 1889; M.A., 1890; M.D.	1895	Utica, N. Y.
Farquarson, R. A., B.A.	1898	Kincardine.
Fee, Samuel H., M.D.	1862	Kingston.
*Fee, S. M., B.A.	1899	Newdale, Man.
*6Fee, W. M., M.A.	1899	Alexander, Man.
Feek, Robert G., B.A.	1882	
*Feir, Harry, B.A.	1895	Basswood, Man.
11Fenwick, Arthur M., M.A.	1890	Regina, N.W.T.
Fenwick, Kenneth N., B.A., 1871; M.A., 1874; M.D.	1874	(Deceased.)
Fenwick, Thomas M., M.D.	1864	(Deceased.)
Ferguson, Allen G., M.D.	1887	Chicago.
Ferguson, Archibald, B.A.	1883	Winnipeg.
Ferguson, A. A., M.D.	1904	Glenwalter.
Ferguson, Charles F., M.D.	1859	Kemptville.
Ferguson, E. A., M.D.	1904	Kingston.
Ferguson, Edward G., M.D.	1863	Macon, Georgia.
Ferguson, George A., B.A.	1894	Owen Sound.
*Ferguson, George D., (Professor, Queen's Univ.), B.A.	1851	Kingston.
Ferguson, James F., B.A.	1862	Kingston.
Ferguson, J., B.A.	1904	Fergus.
*Ferguson, John, B.A., 1876; M.A., 1878; B.D.	1879	(Deceased.)
Ferguson, J. Y., B.A.	1902	Admaston.
Ferguson, M., B.Sc.	1904	Kingston.
5Ferguson, Robert, B.A.	1882	London.
Ferguson, Robert B., M.D.	1863	(Deceased.)
Ferguson, Thomas B., B.A.	1863	
Ferguson, T. R., M.A.	1904	Wiarton.
Ferguson, William B., B.A.	1861	Kingston.
Ferguson, C. A., B.A.	1897	Admaston.
*Ferguson, T. J. S., B.A.	1898	Blackstock.
Fernow, B. E., LL.D.	1903	Ithaca, N.Y.
Ferrier, G. C., M.D.	1900	Kingston.

Name.	Date of Graduation.	Address.
Fetterly, H. B., B.A.	1904	Winchester.
Fielding, Hon. Wm. Stevens, (Minister of Finance, Ottawa) LL.D.	1903	Ottawa.
File, Albert J., M.D.	1869	Ameliasburg.
8Findlay, John, B.A., 1887; M.A.	1888	Los Angelos, Cal.
2Findlay, William A., B.A.	1888	
Finlayson, M. D., B.Sc.	1903	Grand River, N. S.
Finlayson, R. A., B.A.	1898	N. E. Margaree, N.S.
Firth, W. P., B.A., 1900; M.A.	1901	Pickering.
Fisher, Albert .J, M.D.	1887	Brigden.
Fitchett, H. H., B.A., LL.D.	1899	Melbourne, Aus.
*17Fitzgerald, Alfred, B.A,	1889	Kilburn, N. S.
Fitzgerald, Eliza S., B.A., 1884; M.A.	1899	Cornwall.
Fitzgerald, Gerald D., M.D.	1894	(Deceased.)
*Fitzpatrick, Alfred, B.A.	1889	
Flath, Emma S., B.A.	1902	
Fleming, A. G., B.A.	1904	Craigleith.
Fleming, Hugh P., M.D.	1895	Ottawa.
Fleming, Maud E., B.A.	1903	Craigleith.
*Fleming, David, B.A.	1887	Strathcona.
*Fletcher, Rev. D. H., D.D.	1903	Hamilton.
Fletcher, Jas., F.R.S.C., LL.D.	1896	Ottawa.
Fletcher, John, (Professor, Toronto Univ.) M.A., LL.D.	1896	Toronto.
11Fletcher, W. H., M.A.	1902	Toronto Junct.
Fletcher, William P., B.A.	1896	Newmarket.
Foley, Declan E., M.D.	1886	Westport.
Foley, Ignatius J., M.D.	1891	(Deceased.)
Foley, T. B., M.D.	1903	Charlottetown, P.E.I.
10Folger, Howard S., B.A.	1887	Kingston.
Folger, Matthew H., B.A.	1885	New York, U. S.
14Ford, A. B., M.A., 1894; M.D.	1897	Whitby.
Ford, Henry B., M.D.	1885	Bouck's Hill.
Ford, Herbert D., M.D.	1874	Chicago, Ill.
*Forest, John, D.D., (Principal Dalhousie College)	1863	Halifax.
Forfar, Lena M., B.A.	1903	Ellesmere.
Forin, Alexander, M.D.	1894	Nelson, B.C.
Forrester, Edgar, B.A., '82; M.D.	1884	Brockville.
Fortescue, Charles, B.Sc.	1898	Kingston.
Foster, Robert J., M.D.	1859	(Deceased.)
*Fotheringham, R. H., B.A.	1903	Rothsay.
Fowkes, John T., M.D.	1891	Lafrageville, N.Y.
Fowlds, Mary T., B.A.	1896	Hastings.

Name.	Date of Graduation.	Address.
Fowler, Annie L., B.A.	1884	Kingston.
Fowler, Fife, M.D., (Dean, Medical Faculty, Queen's Univ.).	1863	(Deceased.)
5Fowler, Henry C., B.A.	1881	Toronto.
Fowler, Jennie (Kilborn), B.A.	1890	(Deceased.)
*Fowler, William J., B.D.	1888	Kirkland, N.B.
Fowlie, A. J., B.A.	1901	Erin.
Fox, Catherine H. C., B.A.	1902	Mountain Grove.
Fox, Charles B., M.A.	1894	Hamilton.
Fox, Edward C., M.D.	1864	
Foxton, Edward, M.D.	1884	Ottawa.
Foxton, Joseph, B.A.	1886	Kingston.
Fraleck, Judge Edison B., B.A.	1863	Belleville.
Fraleck, E. L., B.A.	1897	Belleville.
Franklin, Benjamin W., M.D.	1856	
Fraser, Anson S., M.D.	1869	Sarnia.
Fraser, Alexander G., B.A.	1852	(Deceased.)
Fraser, Archibald, B.A.	1848	(Deceased.)
*Fraser, Donald, B.A., '64; M.A.	1866	(Deceased.)
Fraser, George, L.B., B.A.	1870	Ottawa.
Fraser, Helen F., B.A.	1901	Hamilton.
*Fraser, James, B.A.	1865	Cushing, Que.
*Fraser, Jas. R., B.A., '93; M.A.	1895	Uxbridge.
Fraser, John, M.A., LL.D.	1887	Maitland, Aus.
Fraser, John B., M.D.	1888	Toronto.
*Fraser, John F., B.A.	1869	
Fraser, John M., B.A., 1857; M.D	1861	(Deceased.)
*Fraser, Joshua, B.A.	1858	(Deceased.)
Fraser, Robert N., M.D.	1884	Thamesville.
Fraser, Wilhelmine G., M.D.	1890	
*Fraser, William, D.D.	1878	(Deceased.)
Fraser, Annie E., B.A.	1897	Victoria, B.C.
Fraser, William A., B.A.	1898	Big Harbor, C.B.
*Fraser, Thurlow, B.A., '98; B.D.	1898	Tamsui, Formosa.
Frechette, Louis H., LL.D.	1881	Montreal.
Freeland, Anthony, M.D.	1889	Ottawa.
Freeman, Albert E., M.D.	1887	Inverary.
Frizell, J. R., B.A.	1897	Toledo, Ont.
Froats, W. C., M.A.	1904	Morrisburg.
Froiland, Herb. M., B.A., 1882; M.D.	1883	(Deceased.)
Fuller, Wm. H., B.A., 1867; M.A.	1873	(Deceased.)
Fulton, Cyril, M.D.	1894	Lyons, N.Y.
Funnell, Ada A., M.D.	1887	Hamilton.
Funnell, Rozelle V., M.D.	1890	Ottawa.
11Furlong, Thomas H., M.A.	1897	Simcoe.
Gage, H. E., M.D.	1902	Kingston.

Name.	Date of Graduation.	Address.
Gage, J. E., M.D.	1898	Riverside, Cal.
Galbraith, J., (Principal, School of Practical Science) LL.D.	1903	Toronto.
Galbraith, John E., M.D.	1880	(Deceased.)
Galbraith, R. B.A.	1897	Simcoe.
Gallaher, Morton, M.D.	1887	Bay City, Mich.
*Gallaher, John, B.A.	1878	(Deceased.)
Galligan, Thomas D., M.D.	1886	Eganville.
Gallivan, J. V., M.D.	1904	Kingston.
4, 5*Gandier, Alf., B.A., '84; M.A	1887	Toronto.
Gandier, Augustin, M.D.	1890	Sherbrooke, Que.
*Gandier, Daniel McG., B.A.	1894	San Bernardino, Cal.
Gandier, J. C., B.A.	1901	Newburgh.
Gardiner, R. J., M.D.	1891	Seeley's Bay.
Gardiner, Sydney H., B.A., 1897; M.D., 1889; M.A.	1890	Brooklyn, N.Y.
Garrett, Richard W., M.D., (Professor, Queen's University.	1882	Kingston.
Gavin, Frederick P., B.A.	1896	Windsor.
Geddes, Robert W., B.A.	1896	Deseronto.
*Geddie, John, D.D.	1866	(Deceased.)
*Geikie, A. Constable, LL.D.	1884	(Deceased.)
*Geikie, J. Cunningham, D.D.	1871	Barnstable, Eng.
Genge, T. S., M.D.	1901	Holleford.
Genge, William W., M.D.	1891	
Gerin, John, M.D.	1872	Auburn, N.Y.
Gibson, Albert E., M.D.	1887	Oakland, Iowa.
Gibson, A. S., B.A.	1904	Kingston.
Gibson, H. A., M.D.	1903	Kingston.
Gibson, J. Copeland, M.A., 1892; M.D.	1896	Hamilton.
Gibson, James C., M.D.	1892	New Haven, Mich.
Gibson, James F., M.D.	1891	Kingston.
Gibson, James D., M.D.	1893	
Gibson, John J., M.D.	1893	Alexandria, Ind.
Gibson, A. M., M.D.	1874	(Deceased.)
Gibson, Wm., M.D.	1904	Emerald.
Gibson, William J., B.A., 1874; M.D., 1881; M.A.	1882	Belleville.
Gildersleeve, James P., LL.B.	1863	Kingston.
Giles, George C., M.D.	1893	Marne, Iowa.
Giles, John G., M.D.	1860	Athens.
Gilfillan, James, B.A.	1896	Bowmanville.
*Gill, Henry, D.D.	1865	England.
Gillen, Erastus, M.D.	1894	(Deceased.)
Gillespie, Henry M., M.D.	1896	Elma, Iowa, U.S.
Gillespie, J. J., M.D.	1904	Morrisburg.

Name.	Date of Graduation.	Address.
Gillies, George, B.A.	1874	Toronto.
Gillies, Neil, M.D.	1871	Brandon, Man.
Gillies, William F., B.A.	1891	(Deceased.)
Gillis, Angus B., M.D.	1888	Salem, Ore.
12Givens, David A., B.A.	1878	Kingston.
Givens, Hannah A., (Marshall) B.A.	1887	(Deceased.)
Givens, William R., B.A.	1888	41st St., N. Y.
*Glassford, Thomas S., B.A.	1875	
Gleeson, James H., M.D.	1864	(Deceased.)
Gleeson, J. V., B.Sc.	1904	Kingston.
*Glover, Thomas J., B.A.	1894	Kingston.
4Gober, Mai, B.A., 1898; M.A.	1899	Kingston.
Goodchild, J. F., M.D.	1899	Craigleith.
Goodfellow, J., B.A.	1900	Parham.
Goodfellow, J. R., M.D.	1904	Kingston.
Goodwill, J. E. L., B.A.	1903	Charlottetown, P.E.I.
*Goodwill, T. W., B.A.	1898	Foxboro.
Goodwill, V. L., M.D.	1899	Charlottetown, P.E.I.
Goold, Arthur J., B.A.	1883	Waterford.
Goldschmidt, Victor, (Professor of Mineralogy, Heidelberg University) LL.D.	1903	Heidelberg, Germany.
Gordanier, W. N., B.Sc.	1903	Napanee.
*Gordon, James, B.A., 1851; M.A.	1854	(Deceased.)
Gordon, John G., B.A.	1861	Slocan, City, B.C.
Gordon, Annie E., B.A.	1897	Ottawa.
*Gordon, D. L., B.A.	1897	Fernie, B.C.
*Gould, S. H., B.A., M.D.	1897	Nablus, Palestine.
8Gould, W. H., M.A.	1900	Kingston.
*Gow, Robert, B.A.	1883	Beaverdale, Man.
3*Govan, Arpad, B.A.	1883	Williamstown.
Gowan, James R., C.M.G., LL.D.	1884	Barrie.
*Graham, Archibald, B.A.	1892	Lancaster.
Graham, D., M.D.	1902	
Graham, Elsie K., B.A.	1902	Kingston.
Graham, Hedley C. W., M.D.	1889	Rochester, N.Y.
Graham, J. A., M.D.	1904	Montreal.
Graham, P. E., B.A.	1898	Kingston.
Graham, R. R., B.A.	1902	Bowell.
Graham, S. N., B.Sc.	1900	Kingston.
Grange, Thomas A., B.A.	1895	(Deceased.)
Grange, William A., B.A.	1898	Napanee.
Grant, A. F., M.D.	1899	Peterboro.
Grant, Ethel I., B.A.	1903	Martintown.
*Grant, Hugh R., B.A.	1883	Rossland, B.C.
*Grant, James A., B.A.	1878	Richmond Hill.

Name.	Date of Graduation.	Address.
*Grant, Kenneth A., M.A., D.D.	1893	San Fernando, W.I.
Grant, Norman M., B.A., 1886; M.D.	1889	Auckland, New Zealand.
*Grant, Peter, D.D.	1868	Dundee, Scotland.
*Grant, William, D.D.	1883	(Deceased.)
1, 2Grant, William L., M.A.	1894	Toronto.
Grasse, Sydney D., M.D.	1864	(Deceased.)
Gray, Henrietta A., B.A.	1899	Kingston.
*Gray, John, D.D., B.A., 1874; M.A.	1876	Orillia.
*Gray, S. Harper, B.A.	1894	Dundas.
Gray, T. J., M.D.	1904	Kingston.
Gray, William A., M.D.	1890	Pembroke.
Green, Samuel D., M.D.	1891	
Greenhill, Eva M., B.A.	1899	Smith's Falls.
Grenfell, Caroline P., B.A.	1899	Arnprior.
Grenfell, M. Elizabeth, B.A.	1899	Makusp, B.C.
Grey, J. M., B.A.	1903	Kingston.
4Grey, S. L. H., M.A.	1903	Athens.
Griffin, A. D., B.A.	1901	Woodstock.
Griffin, E. Scott, B.A.	1884	Toronto.
Griffith, Agnes J., M.A.	1896	Quebec.
Griffith, Edna B., B.A.	1896	Sydenham.
Grimshaw, W. S., M.D.	1901	Kingston.
Grover, G. A., B.Sc.	1902	Kingston.
28Guess, George A., M.A.	1894	
Guess, Harry A., M.A.	1895	Silverton, Colo.
7Guggisberg, W. W., B.A.	1904	Hamilton.
Gunsolus, Kenneth, M.D.	1871	Detroit, Mich.
*Guy, W. A., B.A., 1897; B.D.	1901	MacDonald's Corners.
Hackett, Joseph, M.D.	1858	(Deceased.)
Hagar, A. E., B.A.	1902	
Hagar, Frederick C., M.D.	1895	Smith's Falls.
Haig, Andrew, B.A., 1888; M.A., 1889; M.D.	1891	Kingston.
Hainer, F. L., B.A.	1904	Stouffville.
Hales, James, B.A., 1888; LL.B.	1893	Toronto.
6Hall, J. R., B.A., 1897; M.A.	1898	Sarnia.
Hall, T. F., B.A.	1901	Cobourg.
Hall, W. A., B.A., 1898; M.D.	1900	Kingston.
Halladay, R. W., B.A.	1902	Elgin.
Halliday, Henry, B.A.	1884	Pembroke.
Hamilton, Andrew, B.A.	1855	(Deceased.)
Hamilton, David, M.D.	1862	Batavia, N. Y.
5, 21Hamilton, Charles F., M.A.	1890	Toronto.
Hamilton, David J., B.A.	1895	(Deceased.)

Name.	Date of Graduation.	Address.
Hamilton, Jno. A., B.A., '77; M.D	1886	(Deceased.)
Hamilton, J. C., B.A.	1897	
Hamm, B. N., B.A.	1899	Kamloops, B.C.
Hanley, J. H., M.D.	1900	Kingston.
Hanley, Robert, M.D.	1898	Kingston.
Hanna, James E., M.D.	1886	Ottawa.
Harcourt, Hon. Richard (Minister of Education), LL.D.	1903	Toronto.
Harding, William E., M.D.	1888	Brockville.
Hare, William G., M.D.	1892	Bay City, Mich.
Harkness, Fred B., M.D.	1889	North Gower.
Harkness, Thomas F., B.A.	1862	(Deceased.)
Harpell, J. J., B.A.	1902	Toronto.
Harper, A. M., B.A.	1900	Vancouver, B.C.
Harper, John M., B.A.	1882	Quebec.
Harrington, A. W., M.D.	1881	(Deceased.)
Harris, J. Alton, M.D.	1899	
Harrison, Edgar D., M.D.	1891	Madoc.
Harrison, T. S., M.D.	1865	Selkirk, Man.
Hart, John F., M.D.	1887	Athens.
Hart, Michael W., M.D.	1887	Prescott.
*Hart, Thomas (Professor, Manitoba College), B.A., 1860; M.A., 1868; B.D., 1880; D.D.	1902	Winnipeg.
Harten, Geo. H., B.A.	1902	
*Hartwell, George E., B.A.	1888	Chentu, China.
Harty, J. J., M.D.	1897	Kingston.
Harvie, William D., M.D.	1889	
Harvey, Albert E., M.D.	1869	Wyoming.
Harvey, Catharine, B.A.	1897	Sydenham.
Harvey, J. F., B.A.	1902	Sydenham.
Hasken, B., M.D.	1903	Greenbush.
Hastings, F. R., M.D.	1900	
Hawley, A. T., M.A.	1899	Napanee.
7Hay, Arthur G., B.A., '89; M.A.	1890	Morden, Man.
4, 7, 13, *Hay, Jno., B.A., 1882; B.D.	1885	Renfrew.
Hay, William, B.A., 1883; M.D.	1887	
5, 7, 16Haydon, Andrew, M.A., 1893; LL.B.	1896	Almonte.
Hayes, William J., B.A.	1890	(Deceased.)
Hayunga, George, M.D.	1890	581 Broome St., N. Y.
Hazlett, J. W., B.A., 1901; B.Sc.	1903	Kingston.
1Heap, Frederick, M.A.	1890	Selkirk, Man.
Heath, Frederick C., B.A., 1878; M.D.	1886	Brantford.
Heenan, Daniel, B.A.	1849	(Deceased.)

Name.	Date of Graduation.	Address.
Heeney, T. F., B.A.	1898	Lansdowne.
Heggie, David, M.D.	1865	Brampton.
Henderson, Donald, M.D.	1858	
Henderson, E. Mabel, M.D.	1892	Hamilton.
21Henderson, George F., B.A.	1884	Ottawa.
Henderson, Johnson, B.A.	1885	Armour Miss., Chicago, Ill.
Henderson, Kenneth, M.D.	1883	(Deceased.)
Henderson, Norman R., M.D.	1895	London.
Henderson, William, M.D.	1895	(Deceased.)
*Henderson, William, D.D.	1862	(Deceased.)
Henderson, William H., M.D.	1879	(Deceased.)
Henry, George, M.D.	1869	(Deceased.)
Henstridge, Elizabeth, M.A.	1897	Portsmouth.
Herald, Dundas, M.D.	1891	Walsh, Assa.
24Herald, John, (Prof., Queen's Univ.), B.A., 1876; M.A., 1880; M.D.	1884	Kingston.
Herald, R. T. Wilson, M.D.	1890	N. W. T.
*Herbison, Robert, M.A.	1896	Ottawa.
*Herbison, William J., B.A.	1895	
Herchmer, Ethel M.,(Tett) B.A.	1901	Bedford Mills.
Hermiston, George M., B.A.	1895	Picton.
Herriman, Weston LeRoy, M.D.	1855	Lindsay.
Herrington, Anthony W., M.D.	1881	(Deceased.)
Heslop, John E., M.D.	1887	West Bay City, Mich.
3(*a*)Hewton, Gertrude, M.A.	1903	Kingston.
Hickey, Daniel C., M.D.	1883	(Deceased.)
Higgins, Edward M., M.D.	1877	(Deceased.)
Higginbotham, William, M.D.	1871	Omemee.
Hilker, Adam E., M.D.	1889	Jamaica.
Hill, F. L., M.D.	1897	Seaforth, N. S.
Hill, J. T., M.D.	1902	Napanee.
Hills, W. H., M.D.	1898	Acadia Mines, N.S.
Hillier, Solomon C., M.D.	1869	Bowmanville.
Hillier, William, M.D.	1855	(Deceased.)
Hindle, George, B.A.	1899	Slocan, B.C.
Hingston, Sir William, (Professor, Faculty of Medicine, Laval University) LL.D.	1903	Quebec, Que.
9Hiscock, R. C., M.A., '96; M.D.	1900	Kingston.
Hoag, James P., B.A.	1896	Brantford.
Hoare, Walter W., M.D.	1864	Strathroy.
Hodge, George, M.D., (Professor Western University)	1870	London.
*Hodges, James, B.A.	1892	Oshawa.
20Hodgson, R. T., M.A.	1899	Guelph.
Hoffman, George C., LL.D.	1895	Ottawa.

Name.	Date of Graduation.	Address.
*Hogg, John, D.D.	1871	(Deceased.)
Holdcroft, Joseph, M.D.	1889	(Deceased.)
Holdcroft, W. T., B.A., '88; M.D	1890	Havelock.
Holmes, F. S. LeRoy, M.D.	1877	Kemptville.
*Hooper, Ebenezer, M.D.	1885	Toronto.
Hooper, Edm. J., B.A., '58; M.D.	1861	(Deceased.)
Hooper, Josephine A., (Robertson) B.A.	1885	St. John, N.B.
Hope, James A., B.A., 1862; M.A	1864	(Deceased.)
Hoppin, L. W., B.A., 1903; M.D.	1904	Kingston.
Hord, A. H., B.A., 1899; M.A.	1901	Mitchell.
Horsey, Alfred, M.D.	1865	Ottawa.
Horsey, Edward H., M.D.	1860	(Deceased.)
Horsey, Edward H., M.D.	1888	(Deceased.)
Horsey, Florence M., B.A.	1902	Kingston.
Horsey, Henry H., B.A.	1895	Yokohama, Japan.
3*Horsey, H. E., B.A., '86; M.A.	1887	Abbotsford, Que.
Horton, C. W., B.A.	1899	London, Ont.
Horton, Robert N., M.D.	1879	Brockville.
Hossie, Thomas R., M.D.	1879	(Deceased.)
Hourigan, Andrew B., M.D.	1877	
Houston, D. H., M.D.	1903	Belleville.
Houston, William R., M.D.	1871	Chatham.
Howell, George W., M.D.	1867	Tweed.
Howells, Thomas B., M.D.	1863	(Deceased.)
Hoyles, N. W., B.A., LL.D.	1902	Toronto.
Hubbs, Henry A. M., M.D.	1877	
Hudson, Charles H., M.D.	1896	Belleville.
Huff, S., B.A.	1902	Meaford.
Huffman, A. F., B.A.	1900	Gilead.
Huffman, F. G., M.D.	1897	Oswego Falls, N.Y.
Huffman, R. W. M.D.	1899	
Hugo, Frank M., B.A., 1892; M.A., 1893; LL.B.	1895	Watertown, N.Y.
Hughes, R. E., M.D.	1902	
3, 8Hume, John P., B.A.	1881	Campbellford.
Hunt, Sara A., B.A.	1904	Pakenham.
*Hunter, Alexander, B.A.	1861	(Deceased.)
Hunter, H. A., B.A., '92; M.D.	1899	Fort Bidwell, Cal.
Hunter, H. S., B.A.	1903	Smith's Falls.
5Hunter, James McF., M.A.	1883	(Deceased.)
*Hunter, Robert F., B.A., 1892; M.A., 1897; B.D.	1901	
*Hunter, Robert J., B.A.	1888	
Hunter, W. R., B.A., '99; M.A., 1900; M.D.	1903	(Deceased.)
Hurdman, A. G., M.D.	1901	Ottawa.
17*Hutcheon, Robert J., M.A.	1892	Ottawa.
Hutcheson, James, B.A.	1881	Brockville.

Name	Date of Graduation.	Address.
Hutchison, John, M.D.	1886	(Deceased.)
Hutchison, R. A., B.A.	1904	Walsingham.
Hutton, Maurice, (Principal of University College, Toronto) LL.D.	1903	Toronto.
Igoe, O. A., M.D.	1903	Tarrytown, N. Y.
Ikehara, Toshi C., B.A.	1896	Japan.
Ilett, Ambrose E., B.A., '94; M.D	1898	Watertown, N.Y.
Ingall, E. E., B.A.	1903	Trenton.
Ingersoll, Isaac F., M.D.	1863	Picton.
Ingram, J. R., B.A.	1897	Lindsay.
Instant, Reginald A., B.A.	1895	Emerald.
Ireland, Charles F., B.A.	1866	Winnipeg.
1Ireland, F. Archer W., M.A.	1891	New York, U.S.A.
Irvine, William H., B.A., 1877; M.D.	1896	
Irvine, R. W., B.A.	1897	
Irving, Lennox, B.A.	1886	Pembroke.
Irving, Robert M., B.A.	1896	Riverside, Cal.
Irving, William G., B.A.	1894	Riverside, Cal.
Irwin, Arthur W., M.D.	1896	Oswego, N.Y.
Irwin, Chamberlain A., M.D.	1863	(Deceased.)
Irwin, William, B.A.	1896	Stratford.
Jack, George G., M.D.	1886	
Jackson, H. G., B.Sc.	1903	Lindsay.
Jackson, V. W., B.A.	1903	Fulton.
James, Charles, M.D.	1888	Sylvan.
James, Herbert J., M.D.	1893	Bathgate, N. Dakota.
James, Michael, M.D.	1887	Mattawa.
Jamieson, Alexander, B.A.	1863	(Deceased.)
Jamieson, Alison, M.D.	1892	London.
Jamieson, Archibald, M.D.	1886	North Gower.
Jamieson, David, M.D.	1888	Kars.
Jamieson, Georgina, M.A.	1899	Napanee.
Jamieson, John, M.D.	1881	(Deceased.)
Jamieson, Thomas J., M.D.	1888	Mountain.
James, E. J., (President of Northwestern Univ.) LL.D.	1903	Chicago, Ill.
Jaquith, W. A., M.D.	1898	Auditorium Hotel, Chicago, Ill.
Jardine, Robert, B.A., '63; M.A., 1866; B.D.	1886	Chicago, Ill.
Jarvis, Charles E., M.D.	1882	London.
*Jenkins, Ebenezer E., LL.D.	1889	London, Eng.
Jewett, Albert E., B.A.	1890	Chatham, Ont.
Johns, C. P., B.A., 1896; M.D.	1900	Kingston.
*Johnston, Frederick W., B.A.	1886	Philadelphia.
Johnson, D. B., B.A.	1901	Vancouver, B.C.

Name.	Date of Graduation.	Address.
Johnson, William, B.A., '49; M.A	1852	(Deceased.)
Johnston, Absolom H. J., M.D.	1862	
Johnston, David A., M.D.	1881	(Deceased.)
Johnston, J. K., M.A.	1899	Calgary, Alta, N.W.T.
Johnston, John W., M.A.	1894	Calabogie.
Johnston, G. L., B.A.	1897	Hamilton.
Johnston, J., B.A.	1897	Calabogie.
Johnston, Joshua R., B.A.	1881	Raleigh, N.C.
Johnston, T. H., M.D.	1900	Drayton.
Johnston, W. A., B.A.	1903	Athens.
Johnston, William J., M.D.	1891	
Johnstone, David, M.D.	1868	(Deceased).
Johnstone, William H., M.D.	1889	
Joly, Henry G. DeLotbiniere, LL.D.	1894	Victoria, B.C.
Jones, Alfred W., M.D.	1896	
Jones, Henry M., M.D.	1866	Marmora.
Jones, John, M.D.	1874	Kemptville.
Jones, L. W., M.D.	1902	Kingston.
*Jordan, W. G., D.D., (Professor, Queen's University)	1899	Kingston.
Joy, Sylvanus, M.D.	1857	Tilsonburg.
Joyner, Noble P., M.D.	1893	(Deceased.)
Judson, George W., M.D.	1879	Lyn.
Judson, H. P., (Vice-President and Head of Political Science Department) LL.D.	1903	Chicago, Ill.
Kahkewaquonaby, M.D.	1866	Hagersville.
Kalbfleish, Frederick H., M.D.	1888	Neustadt.
*Kannawin, William M., B.A., 1896; B.D.	1900	Omemee.
Kay, William, M.A.	1855	(Deceased.)
Kayler, William B., M.D.	1896	Saginaw, Mich.
Kearnes, D. A., M.D.	1903	Ottawa.
Keillor, James, B.A.	1900	Ridgetown.
Keith, Sylvanus, M.D.	1898	New Glasgow, N. S.
Kellock, David, M.D.	1899	
Kellock, John D., M.D.	1862	Deceased.)
5, 17Kellock, John McC., M.A.	1892	Riverfield, Que.
Kellock, W. McC., B.A.	1897	Pembroke.
Kelly, David, M.D.	1861	(Deceased.)
Kelly, Edward J., M.D.	1861	(Deceased.)
Kelly, John J., B.A., 1888; M.D.	1892	Sydney, N. S. W.
*Kelly, T. Webster, B.A.	1886	Castorville.
Kelly, W. G., M.D.	1897	Bay City, Mich.

Name.	Date of Graduation.	Address.
*Kemp Alexander F., LL.D.	1871	(Deceased.)
Kemp, J. A., M.D.	1861	(Deceased.)
Kemp, James A., M.D.	1892	Indian Head, N.W.T.
3Kemp, W., B.A., 1898; M.A.	1899	Picton.
Kennedy, Alexander, M.D.	1876	Port Arthur.
Kennedy, A. H., B.A.	1903	Bath.
Kennedy, Alfred, M.A.	1901	Agincourt.
Kennedy, D. B., M.D.	1903	Pembroke.
Kennedy, Jacob B., M.D.	1873	New South Wales.
Kennedy, Jennie M., B.A.	1899	Apple Hill.
Kennedy, John D., B.A.	1885	Pembroke.
Kennedy, John T., M.D.	1891	
Kennedy, Roderick, M.D.	1863	Bath.
Kennedy, T., M.A.	1899	Agincourt.
Kennedy, William B., M.D.	1878	Guelph.
Kerfoot, H. W., B.A.	1900	Prescott.
Kertland, Edwin H., M.D.	1865	Toronto.
Keys, S. J., B.A.	1904	Cornwall.
Kidd, C. E., B.A.	1903	Prospect.
Kidd, Edward, M.D.	1871	Kingston.
24Kidd, John F., M.D.	1883	Ottawa.
Kidd, William E., M.D.	1891	Oak Park, Ill.
Kidd, William J., B.A.	1887	Ottawa.
Kidd, W. J., B.A.	1903	Prospect.
*Kidd, P. E.	1878	81 St. Mark's Ave., Brooklyn, N.Y.
Kilborn, H. J., M.D.	1899	Oso.
8Kilborn, Omar L., B.A., 1888; M.A., 1889; M.D.	1889	Chentu, China.
Kilborn, Ronald, M.D.	1879	Kingston.
Kilmer, E. E. C., B.A.	1904	Aylmer.
Kincaid, Robert, M.D.	1868	Olympia, Oregon.
Kinkead, E. C., M.D.	1904	Kingston, Jamaica.
King, Francis, B.A., 1889; M.A.	1890	Kingston.
King, William W., M.A.	1895	Philadelphia, Pa.
Kingsford, William, C.E., LL.D.	1889	(Deceased.)
Kingsley, Patrick J., M.D.	1894	
Kirk, Fred Jas., B.A., 1888; M.D.	1892	404 Hamburg Ave., Brooklyn, N.Y.
Kirkconnell, Thomas A., B.A.	1894	Port Hope.
Kirkland, W. S., M.A.	1901	Morrisburg.
Kirkpatrick, Charles S., B.A.	1893	Kingston.
*Kirkpatrick, Francis G., B.A.	1891	Lombardy.
Kirkpatrick, Hon. Geo. A., LL.D.	1893	(Deceased.)
Kirkpatrick, Herbert R., B.A.	1895	Kingston.
Kirkpatrick, Guy H., B.Sc., 1897; M.E.	1898	London, Eng.
Knapp, Albert E., B.A.	1895	

Name.	Date of Graduation.	Address.
12Knight, Archibald P., (Professor, Queen's Univ.) B.A., 1872; M.A.	1874	Kingston.
Knight, Cyril W., B.Sc.	1903	Kingston.
Knight, John H., M.D.	1880	Wallaceburg.
Knight, A. S., M.D.	1897	Enfield Centre, N. Y.
*Knowles, Robert E., B.A.	1892	Galt.
Knox, Henry, M.D.	1882	(Deceased.)
Knox, W. J., M.D.	1903	Beachburg.
Koyl, Frederick T., M.D.	1882	Ada, Minn.
Koyl, Frank H., M.D.	1888	Hornellsville, N.Y.
Kyle Robert J. M., M.D.	1895	(Deceased.)
Kyle, William A., M.D.	1885	Manotick.
Lafferty, James, M.D.	1871	Calgary, Alberta.
Lafferty, William A., M.D.	1879	(Deceased.)
Laidlaw, Alexander R., M.D.	1857	(Deceased.)
Laidlaw, C., B.A.	1902	Georgetown.
Laidlaw, J. H., B.A., 1900; M.D.	1903	Georgetown.
Laing, Maybelle, B.A.	1904	Kingston.
Laird, Annie L., B.A.	1901	Kingston.
Laird, D. H., M.A.	1898	Winnipeg.
*Laird, Robert, M.A.	1893	Vancouver, B.C.
Lake, Charles B., M.D.	1866	Ridgetown.
Lake, E. J., M.D.	1898	Kingston.
Lalonde, A. J., M.D.	1904	Barrie.
Lambert, Robert, M.D.	1859	Windsor.
Lamont, John, B.A.	1890	
Lane, Isaac J., M.D.	1886	North Williamsburg.
Lane, Joseph W., M.D.	1875	Mallorytown.
Lanfear, Henry O., M.D.	1889	Melrose, Ind.
*Lang, George R., B.A.	1885	Olds, Alta.
12*Lang, Wm. A., B.A., '73; M.A.	1876	(Deceased.)
14Langford, T. E., M.A.	1898	Shelburne.
*Langill, Paul F., B.A.	1881	Martintown.
*Lavell, Alfred E., B.A.	1892	Ayr.
Lavell, Cecil F., M.A.	1894	Philadelphia.
Lavell, Charles H., M.D.	1873	(Deceased.)
Lavell, Harry A., B.A.	1888	Smith's Falls.
12Lavell, John B., B.A.	1877	Smith's Falls.
Lavell, Michael, M.D.	1863	(Deceased.)
Lavell, William A., M.D.	1881	(Deceased.)
Lavers, Frank C., M.D.	1891	New Ross, N.S.
Lawlor, Michael, M.D.	1857	(Deceased.)
Lawlor, R. G., B.A.	1902	Sydenham.
Lawyer, Annie, M.D.	1888	Ottawa.
Lazier, D. B., M.D.	1901	Camborne.
Leach, G. C., M.D.	1904	Fenelon.

Name.	Date of Graduation.	Address.
Leahy, Bernard J., M.D.	1894	Point Jarvis, N.Y.
Leask, Harry, B.A.	1888	Sudbury.
Leavitt, Arvin S., M.D.	1869	L'Amable.
Leavitt, Minnie G., M.D.	1893	East Hatley, Que.
*Leckie, N. M., B.A., B.D.	1902	Hamilton.
Lee, R. A., M.D.	1904	Port Hope.
Lees, Richard, M.A.	1891	St. Thomas.
*Leitch, James A., B.A.	1892	Eldorado.
Lennox, David, B.A.	1861	
Lent, Edwin J., M.D.	1892	South Bend, Ind.
Leonard, A. H., M.D.	1903	Kingston.
Leonard, Raymond A., M.D.	1879	Napanee.
Le Sueur, W. D., LL.D.	1900	Ottawa.
Letellier, A., M.D.	1897	Peterboro.
Lett, Ralph M., B.A.	1889	St. Thomas.
Lewis, Frederick W., M.D.	1878	Orangeville.
*Lewis, Lewis, B.A.	1881	Derby, Eng.
Lewis, L. L., B.A.	1900	Kingston.
Lewis, T. N., B.A.	1900	Smith's Falls.
Liebner, E. O., B.A.	1902	Orillia.
Lindsay, C. V., M.A.	1900	Toronto.
*Lindsay, John, B.A., '52; M.A.	1854	(Deceased.)
Lindsay, M. A. F., B.A.	1904	London, Eng.
*Lindsay Peter, B.A.	1851	Givens St., Toronto.
4*Linton, Adam, R., B.A., 1881; B.D.	1885	Harrow.
Litchfield, John P., M.D.	1863	(Deceased.)
Little, William C., M.D.	1889	Warracknabael, Aus.
*Livingston, John, B.A.	1857	(Deceased.)
Livingstone, John S., M.D.	1888	(Deceased.)
*Livingstone, Peter S., B.A.	1870	(Deceased.)
Livingstone, Marion (Gillen), M.D.	1887	(Deceased.)
*Lochead, Jno. S., B.A., '61; M.A.	1863	North Gower.
Locheed, Lachlin T., B.A.	1888	Toronto.
Lochead, W. M., M.A.	1898	Kawaguchi, Osaki, Ja.
Locke, John A., M.D.	1893	Algonquin.
Lockhart, Alfred J., M.D.	1892	Harrowsmith.
Lockhart, George D., M.D.	1890	King.
Lockhart, Thomas J., M.A.	1892	Cannington.
Lodge, W. L., B.Sc.	1903	Charlottetown, P.E.I.
Lofthouse, William O. R., M.D.	1895	Kingston, Jamaica.
1, 18Logie, William A., B.A., '87; M.A., 1888; LL.B.	1892	Hamilton.
Longmore, H. B., B.A.	1898	Alexandria.
Longwell, A., B.A., 1900; B.Sc.	1903	Foxboro.
Loucks, J. E., B.A.	1901	Frankville.

Name.	Date of Graduation.	Address.
Loudon, William, (President of University College), LL.D.	1894	Toronto.
*Lowe, Andrew T., B.A.	1878	Quebec.
Lowe, George R., B.A.	1895	Kingston.
Lowe, W. D., M.A.	1902	Kingston.
*Low, G. J., D.D.	1898	Almonte.
Lowry, Blanche T., B.A.	1903	Kingston.
Lunam, Henry, B.A.	1877	Campbellton, N. B.
Lyle, William D., M.D.	1896	Havana, North Dak.
Lynch, Dennis P., M.D.	1878	Almonte.
Lyon, Horatio V., B.A.	1885	Kingston.
Mabee, James E., M.D.	1887	Odessa.
Mabee, Horace C., B.Sc.	1898	Belleville.
Machar, John M., B.A.	1857	(Deceased.)
Madden, John H., B.A.	1889	E. C. S. Bank Bldg., Buffalo, N.Y.
Mahaffy, F. W., B.A.	1903	Courtright.
Mahood, A. E., B.A.	1904	Kingston.
Mahood, Perry, B.A.	1889	Kingston.
Malcolm, George, B.A.	1894	Stratford.
Malcolm, William G., M.D.	1893	Chesley.
Malloch, Archibald E., M.D., B.A	1862	Hamilton.
Malloch, Edward G., B.A.	1860	Perth.
Malloch, Eleanor E., B.A.	1904	Hamilton.
Malloch, George, B.A.	1865	Arnprior.
Malloch, G. S., B.A.	1902	Hamilton.
Malloch, George W., B.A.	1850	(Deceased.)
Mallory, Charley N., M.D.	1860	Delta.
Malone, Edith, B.A., 1899; M.A.	1900	Kingston.
Malone, E. E., B.Sc.	1904	Toronto.
Malone, Herb. V., B.A., '94; M.D.	1898	Frankford.
Mann, Alexander, M.D.	1876	Renfrew.
*Mann, James, D.D.	1869	(Deceased.)
Marselis, Eathen H., M.D.	1895	South Finch.
Mark, Robert, M.D.	1867	(Deceased.)
Marquis, Thomas G., B.A.	1889	Toronto.
Marshall, D. H. J., B.A.	1904	Campden.
4, 13Marshall, Jno., B.A., 1886; M.A.	1889	Kingston.
Marshall, J. W., B.A.	1898	Windsor.
Marshall, W. F., M.A.	1898	
3Marty, Alletta E., M.A.	1894	176 McLaren St., Ottawa.
3, 4Marty, Sophia E., M.A.	1897	Stratford.
Mason, G. W., M.A.	1902	Elmvale.
Mason, JamesW., B.A.	1878	(Deceased.)
Mason, W. R., M.D.	1901	Ottawa.

Name.	Date of Graduation.	Address.
Massie, Agnes M., (Cooper) B.A	1895	Toronto.
Massie, John, M.D.	1865	(Deceased.)
Masson, Thomas, M.D.	1875	Cape Vincent.
Mather, William M., M.D.	1886	Tweed.
Mather, J. F., M.D.	1898	Middleville.
8Matheson, John, M.A.	1901	Armow.
Matheson, Murdoch, M.D.	1870	Waverly, N.S.W.
8Matthews, S. W., M.A.	1897	Vancouver Coll., Vancouver, B.C.
Mattice, William D., B.A.	1847	(Deceased.)
Maudson, William H., B.A.	1896	(Deceased.)
Maudson, G. A., B.A.	1898	(Deceased.)
Mavety, Alexander C., M.D.	1889	
Maxwell, William J., M.D.	1888	(Deceased.)
*May, John, B.A., 1857; M.A.	1861	Franktown.
Maybee, Curtis O., M.D.	1888	New Providence, Io.
Maybee, Millard, M.D.	1887	Riverside, Cal.
Meacham, George P., M.D.	1891	
Meade, Robert, M.A.	1897	Brockville.
Meadows, R. W., M.D.	1862	H. M. Service.
Meagher, Daniel, M.D.	1867	Montreal.
Meek, C. F., M.D.	1900	New Baltimore, Mich.
*Meikle, William, B.A.	1881	
Meiklejohn, A. J., B.A.	1898	Dundas.
Mellon, P. B., M.D.	1901	Queen St., Ottawa.
Mellow, L. E., M.D.	1902	Sillsville.
Mellow, Samuel S., M.D.	1886	Port Perry, Ont.
Melleville, Edmond J., M.D.	1892	Bakersville, Vt.
Menish, Janet I., (Kannawin) B.A	1895	Woodville.
Menzies, R. D., B.A., 1895; M.A., 1896; M.D.	1899	Rosemeath.
Mercer, John G., M.D.	1855	(Deceased.)
Merrill, J. Ward, B.A., '99; M.D.	1902	Ottawa.
Merriman, Wellington H., M.D.	1895	Latimer.
Merritt, C. P., B.Sc.	1899	(Deceased.)
Metcalfe, Archibald A., M.D.	1896	Almonte.
Might, L., M.A.	1904	Kingston.
*Millar, J. F., B.A.	1899	Millartown.
Miller, Eva M., B.A.	1902	Switzerville.
Miller, F., B.A.	1904	Avening.
Miller, James D., B.A.	1896	
Miller, James L., B.A.	1896	Byng Inlet.
*4Miller, John, B.A., 1890; M.A.	1891	Nansimo, B.C.
Miller, John, B.A.	1886	Toronto.
Miller, John C. S., M.D.	1890	Seattle, Wash.
Miller, Lindsay F., M.D.	1877	Toronto.
Miller, Thomas, B.A.	1852	(Deceased.)
Miller, Thomas, B.A., M.D.	1854	Hamilton.

Name.	Date of Graduation.	Address.
*Milligan, G. M., (D.D.), B.A., 1862; LL.D.	1903	Toronto.
Milliner, William S., M.D.	1864	(Deceased.)
Millions, Edna M., (Conn) B.A.	1901	Napanee.
Mills, Hon. David, LL.D.	1901	(Deceased.)
Mills, Rhoda, B.A.	1898	Cataraqui.
*Mills, Rt. Rev. Bishop, LL.D.	1901	Kingston.
Mills, John H., B.A., 1889; M.A.	1890	Waterford.
Mills, Mabel V., B.A.	1901	Kingston.
Mills, Martha C., B.A.	1896	Aurora.
*Mills, William G., B.A.	1885	New Westm'ter, B.C.
*Milne, James W. H., B.A.	1887	Ottawa.
Milne, M. R., B.A.	1903	Kingston.
3Minnes, Robert S., B.A., 1889; M.A., 1890; M.D.	1893	Metcalfe St., Ottawa.
Minor, Silas, M.A.	1865	(Deceased.)
1, 2Misener, Geneva, M. A.	1899	Niagara Falls.
Mitchell, Charles F., M.D.	1890	Cleveland, Ohio.
Mitchell, Elizabeth, M.D.	1888	Montreal, Que.
Mitchell, G. A., B.A.	1899	Shadeland, Man.
2Mitchell, Geo. W., B.A., 1885; M.A.	1891	Cobourg.
Mitchell, Harry F., M.D.	1889	South Bend, Ind.
Mitchell, J., M.D.	1899	Gladstone, Mich.
Mitchell, Joel W., B.A.	1894	Lansdowne.
8Mitchell, Alfred S., M.A., (Professor Columbia College)	1894	New York.
Mitchell, J. V., B.A.	1903	Lansdowne.
Moffat, Wm., M.A., 1894; M.D.	1898	Utica, N.Y.
Montgomery, Fannie L., B.A.	1904	Kingston.
Mooers, Henry F., B.A.	1895	Kingston.
Mooney, Thomas T., M.D.	1896	Rochester, N. Y.
Moore, Andrew, M.D.	1863	(Deceased.)
Moore, H. M., M.D.	1903	Athens.
*Moore, John, B.A.	1881	Burnbrae.
Moore, John, M.D.	1891	Plainfield.
11Moore, Jas. R., B.A., '94; M.A.	1896	
Moore, Margret B., B.A.	1904	Avonmore.
Moore, R. G., M.D.	1902	Belleville.
Moore, Thomas A., M.D.	1883	Westville, N.S.
Moore, Vincent H., M.D., 1870; LL.D.	1903	(Deceased.)
Morden, Frederick W., M.D.	1894	(Deceased.)
Morden, Gilbert W., B.A.	1888	Picton.
Morden, James B., M.D.	1865	Picton.
Morden, John H., M.D.	1859	(Deceased.)
Morden, Wilson S., B.A., 1888; LL.B.	1894	Belleville.

Name.	Date of Graduation.	Address.
Morden, J., B.A..	1900	Kingston.
Mordy, Alfred A., M.D..	1882	(Deceased.)
*Mordy, John, B.A., 1875; M.A.	1878	Oklahoma.
Morgan, Edward M., M.D.. ...	1890	Westmount, Que.
Morris, Alexander C., B.A.. ...	1882	Toronto.
Morris, William, B.A..	1882	Toronto.
Morrison, A. S., B.A..	1898	Hanover.
Morrison, C. A. O., M.D..	1898	Kingston.
Morison, D. W., B.A., D.D.. ..	1903	Ormstown, Que.
*Morrison, Judge Duncan, B. A., 1866; M.A..	1868	(Deceased.)
Morrison, Duncan, B.A..	1862	Owen Sound.
8Mortin, Alice, (Byrnes) M.A..	1899	Gore Bay.
Mostyn, William, M.D..	1858	(Deceased.)
Mowat, Herbert M., B.A., 1881; LL.B...	1886	Toronto.
*Mowat, John B., (Professor, Queen's University) D.D., B.A., 1845; M.A..	1847	(Deceased.)
Mowat, John McD., B.A..	1895	Kingston.
Mowat, Sir Oliver, LL.D..	1872	(Deceased.)
Muckleston, John S., B.A..	1865	
5Mudie, Ethel, B.A..	1899	Kingston.
Mudie, John, B.A..	1863	Kingston.
Muir, Alexander, B.A..	1851	Toronto.
Muir, James, B.A..	1861	Calgary.
*Muir, Jas. B., B.A., 1865; M.A.	1869	(Deceased.)
*Muir, James C., D.D..	1858	(Deceased.)
*Muir, Peter D., B.A..	1856	(Deceased.)
*Muirhead, John W., B.A..	1891	(Deceased.)
Muldrew, William H., B.A... ..	1895	Orillia.
Mullan, Nathaniel S., B.A..	1885	New York.
Mundell, Alma E., B.A..	1902	Kingston.
Mundell, David E., (Prof., Queen's Univ.) B.A., 1883; M.D.....	1886	Kingston.
Mundell, John, M.D..	1886	Kingston.
Mundell, William, B.A..	1875	Kingston.
Munroe, A. T., M.D..	1904	Moose Creek.
Munro, David, M.D..	1867	Perth.
Munro, John C., M.D..	1867	(Deceased.)
*Munro, J., B.A..	1897	Trail, B.C.
Munro, H. B., B.A..	1898	Almonte.
Munro, Maud E., B.A..	1899	Perth.
Munro, M. F., B.A..	1904	Lancaster.
1Munro, P. F., B.A..	1899	Lancaster.
5, 25Munro, William B., (Prof., William's Coll.) M.A., 1896; LL.B..	1896	Williamstown, Mass.

Name.	Date of Graduation.	Address.
Munro, W. A., B.A.	1902	Chesterville.
25Murphy, G. B., B.A.	1904	Brockville.
5Murphy, Isabella, M.A.	1901	Antrim.
Murphy, John B., M.D.	1876	Brockville.
Murphy, Joseph E.. M.D.	1893	Pakenham.
Murphy, W. S., B.A., 1901; M.D.	1903	Portland.
11Murray, D. C., M.A.	1901	Newton.
Murray, Herbert G., M.D.	1896	Owen Sound.
*Murray, Isaac, D.D.	1876	New Glasgow, N.S.
*Murray, James, B.A., 1882; B.D.	1884	Toronto.
Murray, Janet, M.D.	1891	Rossmore.
Murray, J. C., B.Sc.	1901	Halifax, N. S.
*Murray, Robert C., B.A.	1882	(Deceased.)
Murray, Minnie (Chown), M.A.	1893	Renfrew.
Murray, May L., B.A.	1897	Kingston.
Murray, Walter C., (Professor of Philosophy, Dalhousie College and University) LL.D.	1903	Halifax, N.S.
Myers, Ambrose R., M.D.	1894	Moncton, N. B.
Mylks, G. W., M.D.	1897	Kingston.
Mylks, L. E., M.D.	1903	Glenmore.
Macadam, Samuel J., M.D.	1873	
*Macalister, John M., B.A.	1865	Iroquois.
Macalister, Ursilla, M.A.	1900	Iroquois.
Macarthur, Duncan, B.A.	1878	Ailsa Craig.
*Macarthur, George, B.A.	1881	Cardinal, Ont.
Macarthur, James, B.A., 1875; M.D.	1878	London.
Macarthur, John A., B.A.	1880	Davenport, Wash. Ter.
McArthur, J. H., B.A., 1895; M.D	1897	East Barre, Vt.
*McAuley, Alexander, B.A.	1883	Mitchell.
*Macauley, Evan, B.A.	1864	Ottawa.
Macauley, W. B. T., B.A.	1892	Montreal.
McBain, Alex., B.A., 1860; M.A.	1862	(Deceased.)
McBean, Alexander G., B.A.	1865	Montreal.
McBroom, James A., M.D.	1895	Brockville.
McCabe, A., M.D.	1903	Gloucester, Mass.
McCaig, James, B.A., LL.B.	1895	Lethbridge, Alta.
7McCallum, Judge Archibald B., B.A., 1880; M.A.	1881	Manitoulin Island.
McCallum, H. E., B. A., 1900; B.Sc.	1903	Kingston.
McCallum, J. A., B.A.	1899	Brewer's Mills.
McCallum, S., B.A.	1904	Brewer's Mills.
McCambridge, C. J., M.D.	1898	Kingston.
McCambridge, J. E., M.D.	1903	Kingston.

Name.	Date of Graduation.	Address.
McCammon, C. G., M.D.	1884	(Deceased.)
McCammon, Fred J., B.A., 1889; M.D.	1892	New York.
McCammon, James, M.D.	1863	(Deceased.)
McCammon, James A., M.D.	1879	Gananoque.
McCammon, Samuel H., M.D.	1888	Kingston.
*McCannell, Donald, B.A.	1878	(Deceased.)
McCardel, Edward, M.D.	1886	Australia.
McCarthey, A. W., M.D.	1897	
McCarthy, D. M., M.D.	1903	Kingston.
*McCaul, James, B.A.	1859	Toronto.
11McClement, William T., B.A, 1888; M.A.	1889	Armour Ins., Chicago.
McColl, Angus, D.D.	1896	(Deceased.)
McColl, Allan E., B.A., '85; M.D.	1891	Belleville.
*McColl, Evan C. W., B.A.	1886	
7McColl, James A., M.A.	1895	Campbellford.
25McConachie, J. C., B.A.	1903	Demorestville.
McConkey, Katherine M. R., B.A.	1903	Brockville.
McConnell, Benjamin J., M.D.	1881	Morden, Man.
*McConnell, J. A., B.A., 1900; B.D.	1903	Roslin.
McConville, A., M.D.	1900	Kingston.
McConville, Isobel, M.D.	1889	Kingston.
McCormack, Joseph, B.A.	1879	
McCormack, M., B.A.	1901	Crieff.
McCormack, S. G., M.A.	1903	Lyn.
McCracken, John I., B.A.	1874	Ottawa.
McCrea, H. H., M.D.	1899	Easton's Corners.
McCreary, Robert N., M.A.	1895	Carleton Place.
McCrimmon, Annie L., B.A.	1902	Alexandria.
McCuaig, Herbert M., B.A.	1884	Welland.
McCuaig, John A. E., M.D.	1891	Daneville, P. A.
McCullagh, R. J., B.A.	1902	Cobourg.
McCulloch, Andrew, B.A., 1871; M.A.	1874	Port Arthur.
McCulloch, J., M.D.	1901	Port Perry.
McCullough, F. C., M.D.	1904	Gananoque.
McCullough, Thomas P., M.D.	1888	Dundalk.
McCullough, William S., M.D.	1875	(Deceased.)
McCutcheon, William C., M.D.	1894	Cassopolis, Mich.
McDermott, M. F., M.D.	1897	Kingston.
McDiarmid, S. S. R., B.Sc.	1903	Woodstock.
Macdonald, A., M.D.	1901	
*Macdonald, Alexander, B.A.	1861	Napanee.
Macdonald, Alexander R., M.D.	1857	Brighton.
McDonald, A. T., M.D.	1903	Williamstown.
McDonald, Charles, V.P.A.S.E., LL.D.	1894	

Name.	Date of Graduation.	Address.
*Macdonald, Clinton D., B.A.	1886	Grafton, N.Dak. USA
Macdonald, Colin, B.A.	1855	(Deceased.)
*Macdonald, Donald, B.A.	1854	(Deceased.)
*Macdonald, Duncan, B.A., 1859; M.A.	1863	Strathcona, Alta.
4Macdonald, George, B.A., 1878; B.Sc.	1878	(Deceased.)
McDonald, H. A., M.D.	1904	Sunbury.
Macdonald, Herbert S. Judge, B.A., 1859; M.A.	1861	Brockville.
Macdonald, Hugh N., M.D.	1882	Whycocomagh, N. S.
McDonald, Hugh S., B.A., 1891; M.D.	1895	Dresden.
7, 25Macdonald, J. F., M.A.	1899	Carleton Place.
2McDonald, James, M.A.	1892	Picton.
*McDonald, John A., B.A.	1888	Pittsburgh.
Macdonald, Sir John A., LL.D.	1863	(Deceased.)
Macdonald, John A., M.D.	1862	(Deceased.)
Macdonald, John F., M.D.	1896	Kilkenny, Minn.
McDonald, J. M., B.A.	1903	Orangeville.
*Macdonald, Kenneth J., B.A., 1894; B.D.	1896	Forest.
Macdonald, Nerva D. (Burns), B.A.	1894	Stirling.
Macdonald, Norval, B.A.	1900	Kingston.
Macdonald, Patrick A., B.A.	1876	Winnipeg.
*McDonald, Wm., B.A., '98; B.D	1901	Mountain.
Macdonnell, Æneas J., B.A.	1884	Ottawa.
*Macdonnell, Daniel J., B.D., B.A., 1858; M.A.	1860	(Deceased.)
1, 2Macdonnell, George F., M.A.	1893	Toronto.
Macdonnell, George M., B.A.	1860	Kingston.
McDonnell, Hector, M.D.	1893	(Deceased.)
Macdonnell, J. A., M.D.	1862	
McDonnell, J. J., M.D.	1903	St. Andrews West.
Macdonnell, Logie M., B.A., 1902; M.A.	1904	Fergus.
19Macdonnell, James S., M.A.	1899	Pasadena, Cal.
Macdonnell, John M., B.A.	1868	(Deceased.)
McDougall, Colin A., B.A.	1895	St. Thomas.
9McDougall, F. H., B.A., 1902; M.A.	1903	Maxville.
McDougall, James B., B.A.	1896	Blakeney.
McDowell, Charles, B.A.	1877	Renfrew.
McDowell, James A., B.A.	1867	(Deceased.)
McDowall, J. L., M.D.	1903	Kingston.
6McEachran, J. M., M.A.	1902	Glencoe.

Name.	Date of Graduation.	Address.
McEwen, Alexander D., M.D.	1895	Hulbert.
McEwen, Ewen, M.D.	1887	Singhampton.
McEwen, G. G., M.A.	1903	Lakeport.
*McEwen, Jas., B.A., ’52; M.A.	1854	
McEwen, John, B.A.	1887	Smith’s Falls.
McEwen, J. S., B.A.	1897	Carleton Plaec.
McFadden, Murdock, M.D.	1880	Mount Forest.
*Macfarland, John F., B.A.	1890	Warkworth.
Macfarlane, Andrew K. H., B.A.	1888	Vancouver, B.C.
7McGaughey, G. A., M.A.	1900	Deseronto.
McGhie, George S., M.D.	1883	Elgin.
McGibbon, A. A., M.A.	1898	Hawkesbury.
*McGillivray, Alexander, D.D.	1858	(Deceased.)
8McGillivray, Alice, M.D.	1884	Hamilton.
*McGillivray, Daniel, B.A.	1864	Lunenberg, N. S.
McGillivray, Farquhar, B.A.	1852	Ottawa.
*McGillivray, Malcolm, B.A., ’72; M.A., 1874; D.D.	1903	Kingston.
McGillivray, Neil J., B.A.	1847	(Deceased.)
Macgillivray, T. D., B.A.	1902	Kingston.
McGillivray, T. Shannon, M.D.	1888	Hamilton.
McGonigle, M., M.D.	1904	Newboro.
McGrath, Edward, M.D.	1888	Peterboro.
McGrath, George, M.D.	1893	Hamilton, Mon.
McGrath, Michael E., M.D.	1889	Chicago.
McGreer, C. G., B.A., 1901; M.D.	1903	Napanee.
McGregor, James G., M.D.	1895	Martintown.
McGregor, Peter C., B.A., 1866; LL.D.	1901	Almonte.
*McGregor, P. G., D.D.	1876	(Deceased.)
McGuire, J., M.A.	1902	Westport.
12McGuire, Thos. H., B.A., Judge	1870	
23McGuirl, Thomas H., B.A.	1886	Ottawa.
McGurn, Joseph S., M.D.	1881	(Deceased.)
*McIlroy, William A., B.A.	1898	North Williamsburg.
MacInnes, John A., B.A.	1895	(Deceased.)
MacInnes, Charles R., M.A.	1896	Winnipeg, Man.
MacInnes, W. H., B.A.	1902	Vankleek Hill.
McIntosh, Colin, B.C.L., LL.B.	1896	Carleton Place.
McIntosh, Grace A., B.A.	1896	Vancouver, B. C.
McIntosh, G. E., M.D.	1903	Kingston.
3*McIntosh, James W., B.A., ’93; M.A.	1894	South Monaghan.
McIntosh, Wm. D., B.A.	1892	Carleton Place.
McIntosh, Alexander, B.A.	1897	Alexandria.
*McIntosh, J. A., B.A.	1902	Minden.

Name.	Date of Graduation.	Address.
McIntosh, P. A., B.A.	1902	Dundela.
McIntyre, Alex., B.A.	1898	Winnipeg.
Macintyre, A. D., M.D.	1901	Glencoe.
12McIntyre, Donald M., B.A.	1874	Kingston.
McIntyre, D. N., B.A.	1903	Belleville.
McIntyre, Duncan, M.D.	1864	Glencoe.
MacIntyre, J. M., B.A.	1903	Phoenix, Ariz.
McIntyre, John, B.A.	1847	(Deceased.)
McIntyre, John, B.A., 1861; M.A.	1872	Kingston.
*McIntyre, W. C., B.A.	1898	Newington.
McJanet, J., B.A.	1900	Albert St., Ottawa.
McKay, D. A., B.A.	1901	Kintore.
McKay, Donald G., B.A.	1865	(Deceased.)
*McKay, George L., D.D.	1880	(Deceased.)
McKay, John, B.A.	1888	Sault Ste. Marie.
12, 20McKay, Matthew W., B.A.	1879	Pembroke.
McKay, R. B., B.Sc.	1904	Cornwall.
*McKay, Roderick, B.A., 1881; B.D.	1886	
*McKay, William E., B.A.	1856	(Deceased.)
8McKechnie, J. B., M.A.	**1903**	Wiarton.
8McKechnie, J. H., B.A., 1901; M.A.	1902	Wiarton.
McKechnie, W., M.D.	1902	Elmside, Que.
McKee, M. Lillian, B.A.	1900	Peterboro.
*McKee, William, B.A.	1872	Alliston.
McKellar, Dugald, M.D.	1855	(Deceased.)
McKellar, Kate, B.A.	1904	Martintown.
McKellar, Margaret, M.D.	1890	Neemuch, India.
McKenty, James, M.D.	1890	Gretna, Dakota.
McKenzie, Andrew, M.D.	1862	(Deceased.)
*McKenzie, Archibald, B. A., '88 B.D.	1892	Douglas.
*Mackenzie, Archibald A., B.A., '77; B.Sc., '77; M.A., '88; D.Sc.	1896	Osaki, Japan.
McKenzie, Edward, M.D.	1860	Smith's Falls.
MacKenzie, G. C., B.Sc.	1903	Brantford.
McKenzie, John A., Judge, B.A.	1856	Sarnia.
4McKenzie, Malcolm, B.A., '87; M.A.	1894	McLeod, Alta.
*McKenzie, D. A., B.A.	1898	Bishop's Mills.
McKeown, Henry A., M.D.	1895	Belleville.
McKeracher, D. A., B.A.	1903	Dutton.
*Mackerras, John H., B.A., 1850; M.A.	1852	(Deceased.)
Mackerras, R. H., M.D.	1903	Kingston.

Name.	Date of Graduation.	Address.
Mackie, David H., M.D.	1884	New York.
Mackie, F. H., B.Sc.	1903	Oshawa.
*Mackie, Rev. John, D.D.	1903	Kingston.
Mackie, T. A., M.D.	1896	Kemptville.
McKillop, Alexander, B.A.	1877	Montreal.
*McKillop, Charles, B.A.	1875	Lethbridge, N. W. T.
McKillop, James T., M.D.	1889	Beachburg.
McKinley, W. W., M.D.	1903	Kingston.
*McKinnon, Alex. D., B.A., 1894; B.D.	1897	Boston, Mass.
*MacKinnon, A. G., B.A.	1900	Ottawa.
*MacKinnon, H. L., B.A., 1897; B.D.	1900	Lake Ainslie, C.B.
*McKinnon, John, B.A., 1886; M.A., 1889; B.D.	1889	Springbank.
*McKinnon, John, B.A., '94; B.D	1897	Mira, C.B.
*McKinnon, Malcolm, B.A.	1885	Weston.
6*Mackinnon, M. A., B.A., '97; M.A.	1900	Halifax.
*MacLachlan, Alexander, B.A.	1884	Smyrna, Turkey.
McLaren, Alexander, M. D.	1865	Lancaster.
McLaren, A. F., M.D.	1897	Cornwall.
Maclaren, C. H., B.A.	1902	Ottawa.
*McLaren, Ebenezer D., B.A., '70; M.A., 1873; B.D., 1873; D.D.	1901	Toronto.
McLaren, James, B.A.	1850	Nelson, O.
McLaren, John, B.A.	1856	(Deceased.)
12McLaren, J. B., B.A., '76; M.A.	1878	Winnipeg, Man.
McLaren, Peter, B.A.	1854	(Deceased.)
McLaren, Peter, LL.D.	1868	(Deceased.)
McLaren, Peter, B.A.	1866	Ormstown, Que.
McLaren, T. C., M.D.	1903	Osceola.
McLaren, T. O., M.D.	1902	Lancaster.
*McLaren, Wm., (Prof., Knox College), D.D.	1883	Toronto.
7McLaren, W. W., M.A., 1899; B.D.	1902	Picton.
McLaughlin, Edward, M.D.	1886	Morrisburg.
*McLean, A., D.D.	1903	Blyth.
*McLean, Alexander, B.A.	1878	(Deceased.)
McLean, Caird R., M.D.	1859	(Deceased.)
Maclean, Donald, M.D., LL.D.	1893	(Deceased.)
*McLean, Donald J., B.A.	1855	Arnprior.
McLean, Ernest H., M.D.	1891	Revelstoke.
*McLean, James M., B.A.	1887	Chatham, N. B.
McLean, James R., B.A.	1894	Arnprior.
McLean, Katherine G., B.A.	1896	Arnprior.

Name.	Date of Graduation.	Address.
MacLean, Lauchlin H., B.A.	1894	Port Hastings, C. B.
*Maclean, Matthew W., B.A., 1869; M.A.	1872	Belleville.
McLean, N. J., B.A.	1899	Pembroke.
McLean, R. A., B.A.	1903	Smith's Falls.
McLean, Solomon C., M.D.	1874	Spencerville.
McLean, Thomas F., M.D.	1863	(Deceased.)
McLellan, James A., M.D.	1891	Economy, N. S.
McLennan, A. L., B.A.	1897	Tilsonburg.
*MacLennan, Alexander, B.A.	1857	(Deceased.)
*MacLennan, Alex. K., B.A., '91; B.D.	1894	Boston, Mass.
McLennan, Alexander S., M.D.	1873	Chicago, Ill.
Maclennan, Donald B., K.C., B. A., 1857; M.A.	1861	Cornwall.
Maclennan, Donald, B.A., 1848; M.A.	1862	
McLennan, Donald R., M.D.	1897	Cornwall.
McLennan, Duncan N., M.D.	1891	Port Hope.
McLennan, Elizabeth, B.A.	1899	Lancaster.
Maclennan, Finlay M., B.A.	1879	(Deceased.)
*McLennan, G. B., B.A.	1901	Walkerton.
Maclennan, Hon. Mr. Justice Jas., B.A., 1849; LL.D.	1885	Toronto.
McLennan, J. D., B.A., B.Sc.	1902	Port Hope.
Maclennan, James J., B.A.	1887	Toronto.
Maclennan, John, Sheriff, B.A.	1855	Lindsay.
*Maclennan, Ken., B.A., '49; M.A	1868	(Deceased.
McLennan, K. R., B.Sc.	1904	Lindsay.
Maclennan, Roderick J., B.A.	1884	Toronto.
*Maclennan, Wm., B.A., '64; M.A	1866	(Deceased.)
6McLeod, Alexander, B.A.	1883	
McLeod, J. A. F.	1854	(Deceased.)
*McLeod, John, B.A.	1883	(Deceased.)
McLeod, Lola, B.A.	1904	Kingston.
4, 7, 15, 17, *McLeod, Peter A., B.A., 1887; M.A., 1890; B.D.	1892	Attwood.
McMahon, James, M.D.	1873	Texarkana, Texas.
McManus, Emily, M.A.	1894	Chesley.
McManus, John P. C., M.D.	1897	Bath.
Macmilan, Duncan, Judge, B.A.	1857	Cayuga.
McMillan, A., B.A.	1899	Beulah, Man.
MacMillan, A. E., M.D.	1903	Sydenham.
McMillan, Hugh H., B.A.	1880	Dakota.
*McMillan, J., D.D., B.A., 1862; B.D.	1865	Halifax.
*McMorine, John, D.D.	1865	(Deceased.)

Name.	Date of Graduation.	Address.
*Macmorine, Jno. K., B.A., 1859; M.A., 1863; (Rector of St. James' church) D.D.	1903	Kingston.
*Macmorine, Sam., B.A., 1865; M.A.	1872	Portage la Prairie.
*McMullen, Andrew J., B.A.	1893	Merrickville.
McMurchy, Archibald, M.D.	1883	North Bay.
McMurchy, Archibald, B.A.	1875	Nipissing.
McNab, A. J., B.A., B.Sc.	1902	Douglas.
McNab, A. J., B.A.	1902	Douglas.
4McNab, Eliz. M., B.A., '01; M.A.	1902	Douglas.
*Macnab, Findlay F., B.A.	1859	Arnprior.
McNab, George G., M.A.	1902	Renfrew.
MsNab, Robert C., B.A.	1896	Renfrew.
McNaughton, Elizabeth, M.A.	1900	Cornwall.
*Macnaughton, James P., B.A.	1884	Smyrna, Turkey.
McNee, J. E., M.D.	1891	(Deceased.)
Macnee, James H., B.A.	1885	Kingston.
Macnee, Peter C., B.A.	1873	Picton.
MacNeill, W. K., B.Sc.	1903	Embro.
McNichol, Eugene C., M.D.	1877	Cobourg.
McPhail, A. C., B.A.	1899	Almonte.
*McPhail, Donald G., B.A.	1889	Frank, N.W.T.
Macphail, J. G., B.A.	1903	Orwell, P.E.I.
*McPhayden, Hugh, B.A.	1881	Manilla.
Macpherson, Alexander J., M.D.	1862	(Deceased.)
McPherson, Charles F. S., M.D.	1896	Prescott.
Macpherson, Hattie G., B.A.	1897	Prescott.
Macpherson, Hector, B.A.	1903	Grand Valley.
Macpherson, Henry, B.A.	1851	(Deceased.)
Macpherson, Jas. P., B.A., 1857; M.A.	1865	Ottawa.
Macpherson, Mary C., B.A.	1900	Prescott.
*McPherson, Neil, B.A., 1889; M.A., 1891; B.D.	1894	Hamilton.
McPherson, Norman A., B.A.	1889	
McPherson, R. J., B.A.	1898	Kincardine.
McPherson, Wallace A., B.A.	1891	(Deceased.)
McPherson, William A. A., M.D.	1891	Prescott.
Macpherson, W. E., B.A.	1898	Prescott.
McQuarrie, Alexander R., B.A.	1862	
McQuarrie, W. J., B.A.	1904	West Bay, C.B.
Macqueen, M. A., B.A.	1903	Orwell, P.E.I.
14McRae, A. D., B.A., 1900; B.Sc.	1902	Kingston.
*Macrae, Donald, D.D.	1880	Quebec.
McRae, Donella M., B.A.	1900	Perth.
McRae, Thomas W. R., B.A.	1886	Westmount, Que.

Name.	Date of Graduation.	Address.
McSporran, J. A., B.A.	1902	London, Ont.
*McTavish, Alexander, B.A.	1881	Carnduff, Assa.
6, 17, 20, 24, *McTavish, D., B.A., 1881; M.A., 1882; D.Sc.	1885	Toronto.
McTavish, Duncan B., Judge, B. A., 1870; M.A.	1873	Ottawa.
McVety, Albert F., M.D.	1886	Toledo, Ohio.
McVicar, John, B.A.	1897	Harrietsville.
*Nairn, Robert, B.A.	1879	
Nash, P. I., M.D.	1902	Kingston.
*Neill, Robert, D.D.	1872	(Deceased.)
Neill, Rev. John, D.D.	1904	Toronto.
Neilson, Bertha, B.A.	1896	Wilton.
Neish, A. C., B.A., 1898; M.A.	1900	Columbia Univ., New York.
Neish, James, M.D.	1865	Port Royal, Jamaica.
Neish, George J., M.D.	1890	Bath, Jamaica.
Neish, William D., M.D.	1887	Old Harbor, Jamaica.
Neish, James, M.D.	1897	Kingston, Jamaica.
Neish, D. B., M.D.	1897	Port Royal, Jamaica.
*Nelles, Samuel S., D.D.	1861	(Deceased.)
Nelson, John, B.A.	1899	Kemptville.
Nesbit, Edward, M.D.	1868	(Deceased.)
Neville, K. P. R., B.A., '96; M.A.	1897	Univ. of Ill., Urbana, Ill.
Neville, M. J., M.D.	1893	Brooklyn, N.Y.
Newlands, George, M.D.	1879	Seattle, U. S.
Newlands, Isaac, B.A.	1884	Buffalo, N. Y.
Newman, George E., B.A.	1891	Brighton.
Newton, John, M.D.	1866	Deseronto.
5Newton, Meta, B.A.	1902	Deseronto.
*Nicholson, Alex. B., (Professor, Queen's University), B.A.	1867	Kingston.
Nickle, William F., B.A.	1892	Kingston.
Nicol, James, M.D.	1863	(Deceased.)
Nicol, Jennie (McKelvey), B.A.	1893	
8, 11, 14, 23Nicol, Wm., Prof., Mining School), B.A., 1883; M.A.	1889	(Deceased.) Kingston.
Nicolle, F. R., B.A.	1903	Kingston.
*Nimmo, John H., B.A., 1869; M.D.	1886	Barriefield.
Nimmo, H. M., B.A.	1898	Brockville.
Nisbet, David A., B.A.	1892	Newburgh.
Nish, James, D.D.	1880	(Deceased.)
*Niven, David P., B.A.	1867	St. Catharines.
Noble, D. S., B.Sc.	1902	Clarkson.
Noel, John V., B.A.	1863	(Deceased.)
Norris, Isaac T., B.A.	1894	Ottawa.
8Norris, James, M.A.	1893	Kincardine.

Name.	Date of Graduation.	Address.
North, Edwin, B.A.	1896	Young's Point.
Northmore, Harold S., M.D.	1889	Bath.
Nugent, Andrew, B.A.	1876	(Deceased.)
Nugent, A., B.A., 1897; M.D.	1899	Dhar, Central India.
O'Connor, C. E., M.D.	1898	Kingston.
O'Connor, Charles, B.A.	1890	Ottawa.
Odell, Henrietta (Laird), B.A.	1895	Vancouver, B.C.
Odlum, John, M.D.	1880	Woodstock.
Ogilvie, H. G., M.D.	1899	Kingston, Jamaica.
Ogilvie, Nettie, M.D.	1888	Kingston, Jamaica.
O'Hagan, T. F., M.D.	1900	Fort William.
O'Hara, Margaret, M.D. (Medical Missionary)	1891	Dhar, India.
O'Hara, J. J., M.D.	1898	Alma City, Minn.
Oldham, Edmund, M.D.	1881	Chatsworth.
Oldham, John H., M.D.	1891	Yarker.
Oliver, Alfred S., M.D.	1863	(Deceased.)
Oliver, John K., M.D.	1868	(Deceased.)
Oliver, Marion, M.D. (Medical Missionary)	1886	Indore, India.
O'Loughlin, Robt. S., B.A., 1865; M.A.	1874	New York.
O'Neil, Thomas, M.D.	1888	(Deceased.)
O'Reilly, Anthony, M.D.	1861	(Deceased.)
6O'Reilly, James R., Judge, B.A.	1852	Prescott.
O'Reilly, T. J., M.D.	1902	Placentia, Nfld.
O'Rourke, Thos. A., B.A., LL.B.	1895	Trenton.
Orser, T. H., B.A., 1899; M.D.	1902	Glenvale.
O'Shea, James F., M.D.	1881	(Deceased.)
O'Shea, James, B.A.	1891	Kingston.
O'Sullivan, John, M.D.	1868	(Deceased.)
*Oxley, Malcolm S., B.A.	1878	Montreal.
Page, Thomas A., M.D.	1883	Brockville.
Pannell, W. L., M.D.	1903	Kingston.
2Parker, Frank R., B.A.	1887	
Parker, James, B.A.	1898	Stirling.
Parker, Mabel (Ross), B.A.	1895	Kingston.
Parker, Robert, M.D.	1861	Stirling.
Parker, R. D. W., M.D.	1900	Bermuda.
Parkyn, H. A., M.D.	1892	Chicago, Ill.
Parlow, Allen B., M.D.	1894	Iroquois.
Parmelee, George W., B.A.	1889	Quebec.
*Patterson, Andrew, B.A.	1884	Montreal.
2Patterson, Andrew O., M.A.	1897	Carleton Place.
*Patterson, Gilbert C., B.A., '78; M.A.	1880	Embro.
Patterson, James A., M.D.	1889	Iron River, Wis.

Name	Date of Graduation	Address.
Patterson, James R., M.D..	1867	Port Elgin.
Patterson, John M., M.D..	1890	Okeowa, Neb.
Patterson, Richard L., M.D.. ..	1885	Buffalo, N. Y.
Patterson, W. J., M.D..	1902	Peterboro.
3, 13Patterson, Wm. J., B.A., '88; M.A..	1895	Carleton Place.
Patterson, W. R., B.A..	1902	Kingston.
Paul, H. E., B.A., 1898; M.D...	1901	Newburgh.
Paul, J. H., M.D..	1898	Jamesville, N. Y.
4, 7Peacock, Edward R., M.A...	1894	Dom. Securities Co., Toronto.
*5, 25, 4, 7Peck, W. W., M.A., '94; LL.B..	1894	Edmonton.
Pennock, N. I., M.D..	1904	Brockville.
Pense, E. H., B.Sc..	1903	Kingston.
Pentland, G. E., B.A..	1904	Heathcote.
Perault, Julian, M.D..	1857	
Perney, F. E., B.A..	1903	Ottawa.
*Perrin, Louis, B.A..	1884	Wroxeter.
Petapiece, A. W., B.A..	1903	Merrickville.
Peterson, Wm. C. M. G. (Principal and Professor of Classics, McGill University), LL.D...	1903	Montreal.
5Pettit, L. J., B.A..	1904	St. Thomas.
*Petrie, J. A., B.A..	1901	Belleville.
*Phalen, Ronald M., B.A..	1889	Cartwright.
Phelan, Daniel, M.D..	1877	Kingston.
Phelan, Leopold, B.A., M.D.....	1890	Ackley, Iowa.
Philp, J. H., M.A..	1903	Morrisburg.
Pierce, Ada E., B.A..	1904	Willetsholme.
Pilkie, P. J., B.A..	1895	Fort William.
Pike, N. J., M.D..	1898	Saginaw, Mich.
Pirie, Alexander F., M.D..	1887	Cartago, Costa Rica.
Pirie, H. H., B.A..	1890	Cartago, Costa Rica.
Pitblado, Colin, M.D..	1886	(Deceased.)
*Pitts, F. E., B.A..	1897	New Liskeard.
1Playfair, Alfred W., M.A.. ...	1896	Windsor Mills, Que.
Platt, E. O., B.A..	1904	Plainfield.
Pocock, C. E., B.A..	1902	Little Current.
*Pollock, Peter M., B.A..	1881	Scotland.
*Pollok, Allen, D.D., (Principal, Presbyterian College)..	1876	Halifax.
Polson, Susan C., (Rollins), B.A.	1896	London.
Poole, A. W., B.A..	1899	350 La Salle Ave., Chicago, Ill.
Pope, Egerton L., B.A..	1895	Cookshire, Que.
Pope, F. J., M.A..	1891	Kingston.
Pope, Step. D., B.A., '61; LL.D.	1890	Victoria, B.C.
Porteous, C. A., M.D..	1901	Verdun.

Name.	Date of Graduation.	Address.
Porter, S. E., M.D.	1900	South Mountain.
Porter, W. C., B.A.	1903	Cleveland, Ohio.
*Potter, James G., B.A.	1891	Peterboro.
Potter, Levi, M.D.	1870	Enniskillen.
Potter, Samuel, M.D.	1875	(Deceased.)
Potter, Thomas, M.D.	1876	Ottawa.
Powell, George K., B.A.	1891	Toronto.
Powell, W. B., B.A.	1901	Brockville.
Power, Gertrude F. E., B.A.	1903	Kingston.
Power, J. F., M.A.	1899	Simcoe.
Power, John J., B.A.	1900	Halifax, N.S.
Pratt, William F., M.D.	1888	
Pratt, Wilton, M.D.	1888	
Prendergast, A. R., B.A.	1901	Montreal.
Preston, Richard, M.D.	1875	Carleton Place.
Preston, Robert H., M.D.	1864	Ottawa.
Price, Cornelius V., Judge, LL.B.	1863	Kingston.
Price, Edwin, B.A.	1888	Dundas.
Price, Henry H., B.A., '77; M.D.	1890	Cartago, Costa Rica.
Price, Robinson B., M.D.	1886	Bath.
Pringle, H. S., B.A.	1899	Oak Park, Ill.
*Pringle, John, B.A., 1875; D.D.	1904	Dawson, Yukon.
Pringle, Robert H., B.A.	1882	Brampton.
Pritchard, J. A., M.D.	1903	Brockville.
*Prittie, W. T., B.A.	1897	Vernon.
Proderick, W. S., M.D.	1900	Ottawa.
Purdy, Alvanley N., M.D.	1873	
Purdy, Charles W., M.D., 1869; LL.D.	1898	(Deceased.)
Purdy, May C., B.A.	1904	Kingston.
Purdy, Victor M., B.A.	1894	Phoenix.
Purvis, W., B.A.	1899	Bryson, Que.
Putman, J. H., B.A.	1899	Ottawa.
2Quigley, J. P., M.A.	1903	Kingston.
Race, W. B., B.A.	1903	Watford.
Rainsbury, W. C., M.D.	1900	Skegby, Notts, Eng.
Rainstead, H.	1887	
Ramsay, Robert, M.D.	1861	(Deceased.)
Ramsay, W., B.A.	1902	Plattsville.
Rand, Silas T., LL.D.		Hantsport, N. S.
Raney, Wesley H., B.A.	1895	Lachute, Que.
Rankin, William H., M.D.	1889	Brooklyn, N. Y.
*Rannie, Alex., B.A.	1898	Nairn.
Ranstead, William, M.D.	1887	Ottawa.
Rathbun, Herbert B., B.A.	1883	(Deceased.)
3*Rattray, James, B.A.	1887	Eganville.
Rawlins, J. W., B.A., 1899; B.Sc.	1901	Copper Cliff.

Name.	Date of Graduation.	Address.
Raymond, C. Nelson, M.D.	1891	New Rochelle, N.Y.
Rayside, Edith, B.A.	1896	Ottawa.
Redden, Marion, B.A.	1903	Kingston.
*Reddon, John A., B.A.	1889	Glenboro, Assa.
Redmond, A. V., B.Sc.	1903	Kingston.
Redmond, Robert C., B.A., 1895; M.D.	1898	Bishop's Mills.
Redmond, W. C., M.D.	1901	Bethel.
Reekie, J. S., M.D.	1902	Sidney, N. S. W.
Reeve, Richard A., M.D., (Dean, Toronto School of Medicine)	1865	Toronto.
Reeve, John L., M.D.	1882	Clinton.
Reeve, Henry H., M.D.	1880	(Deceased.)
Reid, Etta A., (Newlands) M.A.	1892	Kingston.
Reid, E. J., B.A.	1904	Centreville.
Reid, F. D., B.Sc.	1904	Kingston.
Reid, G. M., M.D.	1903	Kingston.
Reid, J. A., B.Sc.	1902	Annapolis, N. S.
Reid, John D., M.D., M.P.	1890	Cardinal.
Reid, R. M., M.D.	1902	Renfrew.
Reid, S. M., B.A.	1899	Kingston.
Reid, Victoria, B.A., 1900; M.D.	1904	Kingston.
*Reid, William, D.D.	1876	(Deceased.)
Reid, William D., M.D.	1880	Barre, Vt.
Reid, M. R., M.A.	1897	Napanee.
Reilly, Adrian, M.D.	1862	(Deceased.)
*Renaud, Allen C., B.A.	1864	
Reynolds, Helen E.,(Ryan), M.D	1885	Sudbury.
Reynolds, M., B.A.	1903	Athens.
*Richardson, Rev. A. W., M.D.	1899	Kingston.
Richardson, E., M.D.	1901	Brockville.
Richardson, William W., B.A.	1893	Winnipeg.
Rielly, F. J., B.A.	1903	Sydenham.
*Rigby, O., (Headmaster, Trinity College School, Port Hope) LL.D.	1903	Port Hope.
Rigney, Timothy J., B.A.	1895	Kingston.
Ritchie, Geo., B.A., 1878; B.Sc.	1878	Toronto.
Robb, D., B.A.	1903	Brussels.
Robb, J. J., B.A.	1904	Battersea.
38Robertson, Alex. M., M.A.	1896	Leamington.
Robertson, Alexander C., M.D.	1893	Dawson, Y. T.
Robertson, Donald M., B.A.	1886	Toronto.
Robertson, D. M., B.A.	1899	Harwich.
Robertson, G. D., B.A.	1903	Dunnville.
Robertson, J. B., B.A.	1903	Toronto.
Robertson, J. J., M.D.	1903	Montreal, Que.

Name.	Date of Graduation.	Address.
Robertson, John W., M.D..	1888	Westville, N.S.
Robertson, J. W., LL.D..	1903	Ottawa.
Robertson, Miles S., B.A..	1884	Violet.
Robertson, Struan G., B.A..	1891	Hopewell, N. S.
Robinson, Andrew, M.D..	1889	Kalamazoo, Mich.
Robinson, Andrew, M.D..	1895	Fort Wayne, Ind.
Robinson, Edward B., M.D.. ..	1891	
Robinson, F. A., B.A..	1904	Louisville, Ky.
Robinson, J., B.A..	1903	Hamilton.
Robinson, E. J., M.D..	1904	North Williamsburg.
Robinson, Robert P., M.D..	1888	Ottawa.
Robinson, Robert R., M.D... ...	1892	Klondyke, B.C.
Roche, William P., M.D..	1860	(Deceased.)
Rockwell, Albert, M.D..	1868	Lewiston, Idaho.
Rockwell, Ashbel S., M.D.	1872	Rochester, N.Y.
Roddick, T. G., LL.D., (Dean of the Faculty of Medicine, McGill University)..	1903	Montreal, Que.
Rodgers, James C., B.A..	1894	Bradford, Ont.
1Rogers, C. S. G., M.A..	1901	Niagara Falls.
Rogers, R. Vashon, B.A., 1861; LL.D..	1895	Kingston.
Rogers, David H., M.D..	1881	Gananoque.
28Rogers, W. C., M.A..	1899	Linden Valley.
*Rollins, James, B.A..	1895	London.
Rollo, James, B.A..	1852	(Deceased.)
*Romanes, George, LL.D..	1866	(Deceased.)
Roose, E. C. Robson, LL.D.. ..	1889	London, Eng.
Rose, George R., B.A., '56; M.A.	1860	(Deceased.)
*Rose, G. W., B.A..	1898	Mono Centre.
Rose, S. L. E., B.Sc..	1903	Tamworth.
Ross, Alex. H. D., B.A., '88; M.A.	1889	Tilsonburg.
Ross, Arthur E., B.A., '92; M.D.	1897	Kingston.
*Ross, Donald, B.A., 1860; M.A., 1862; B.D., (Prof., Queen's University)..	1863	Kingston.
Ross, George S., B.A..	1856	
Ross, G. W., Hon., (Premier of Ontario) LL.D..	1903	Toronto.
*Ross, James, D.D..	1864	(Deceased.)
*Ross, James, B.A., 1878; M.A., 1881; B.D., 1881; D.D., (Professor, Presbyterian College)	1898	Montreal.
Ross, John Reid, B.A..	1862	
Ross, Thomas K., M.D..	1863	(Deceased.)
*Ross, Walter, B.A., 1859; M.A.	1862	(Deceased.)
Ross, William A., Judge, B.A...	1855	Ottawa.

Name.	Date of Graduation.	Address.
Ross, W. J., M.D.	1900	(Deceased.)
Rothwell, William, B.A.	1881	
Rourke, Francis, M.D.	1872	
Row, R. K., B.A.	1897	Chicago.
Rowse, Mark R., B.A.	1870	Bath.
Roy, E., M.D.	1901	Kingston.
Roy, Henry, M.D.	1885	Chisholm.
Russell, Donald G., M.D.	1885	Spokane, Wash.
Russell, F. Howard, B.A.	1889	Victoria, B. C.
Russell, Jean McG.,(Young) B.A	1894	Prince Albert.
Russell, Margaret, B.A.	1897	Ottawa.
Russell, W. J., B.A.	1900	Pakenham.
Russell, Samuel, B.A.	1882	Deseronto.
Rutledge, S. H., M.D.	1904	Thomasburgh.
Ruttan, Emily, B.A.	1902	Kingston.
Ruttan, Franklin S., M.D.	1893	Yarker.
Ruttan, Joseph B., M.D.	1863	Wellington.
Rutherford, David B., M.D.	1882	(Deceased.)
Rutherford, James, M.D.	1870	Orono.
Ryan, Clara, M.D.	1893	Sherman, Texas.
Ryan, Edward, B.A., 1886; M.D., Prof., Queen's University)	1889	Kingston.
Ryan, Michael D., M.D.	1891	Saginaw, Mich.
Ryerson, S. Edward, M.A.	1895	(Deceased.)
St. Remy, C. de, M.D.	1902	Kingston.
Sadler, G. S., M.D.	1899	Combermere.
Sands, Ernest, M.D.	1889	(Deceased.)
Sands, Wm. W., M.D.	1894	Kingston.
Saunders, Herbert J., M.D.	1869	(Deceased.)
Saunders, Lawrence, M.D.	1868	(Deceased.)
Saunders, Wm., F.R.S.C., LL.D.	1896	Ottawa.
14Saunders, W. J., M.A.	1900	Kingston.
Saunders, W R., B.A.	1899	Waterford.
Sayers, Alexander, M.D.	1870	(Deceased.)
Scales, Thomas, B.A., '78; M.D.	1887	(Deceased.)
Schultz, Hon. John C., M.D., LL.D.	1894	(Deceased.)
Scott, A., B.A.	1899	Glenmorris.
*Scott, Alex. H., B.A., '75; M.A.	1878	Perth.
8Scott, Colin A., B.A.	1885	Chicago.
Scott, J. M., B.A.	1897	Brockville.
*Scott, Marcus, B.A.	1893	Detroit.
Scott, O. N., B.Sc.	1903	Listowel.
Scott, Patrick J., M.D.	1888	Southampton.
*Scott, Thomas B., B.A., 1875; M. D., (Medical Missionary)	1892	Jaffna, Ceylon.
*Scott, Thomas R., B.A.	1888	Oxbow, N.W.T.

Name.	Date of Graduation.	Address.
Scott, T. S., B.A., 1894; B.Sc.	1897	Niagara Falls.
Scott, Wm. J., M.D.	1891	Lanark.
Scott, William S., M.D.	1855	(Deceased.)
Scott, W. B., M.D.	1897	Crystal, N. Dak.
Scovill, Simmons S. S., M.D.	1877	Rat Portage.
Scribner, J. F., M.D.	1898	Ottawa.
Seager, James, M.D.	1894	Ottawa.
Searls, Abraham W., M.D.	1864	(Deceased.)
Seath, John, B.A., LL.D.	1902	Toronto.
Seaton, E. T., B.A.	1897	Caledonia.
*Sedgwick, Robert, D.D.	1878	(Deceased.)
Sexsmith, M. E., B.A., 1903; LL.B.	1904	Centreton.
Sexton, J. H., M.A.	1902	Kingston.
Shannon, Jno. R., B.A., '85; M.D.	1890	20 West 35th St., New York.
Shannon, Lewis W., B.A.	1877	Kingston.
Shannon, Robert W., B.A., 1875; M.A.	1880	Rossland.
*Sharp, John, M.A.	1892	New Liskeard.
Shaw, A., M.D.	1899	Philadelphia, Pa.
Shaw, John M., B.A., 1883; M.D.	1886	Lansdowne.
Shaw, Lily, B.A.	1903	Kingston.
Shaw, Robert, B.A.	1873	(Deceased.)
Sheffield, E. B.A., 1900; M.D.	1903	Toronto.
Shenick, Adeline, B.Sc., B.A.	1891	(Deceased.)
*Sheraton, James P., D.D., (President, Wycliffe College)	1882	Toronto.
2, 19Shibley, G. R., M.A.	1901	Kingston.
6Shibley, Henry T., B.A.	1881	(Deceased.)
Shibley, Jennie M., (Cram) B.A.	1900	Cobden.
Shibley, Laura, B.A.	1890	B. C.
Shier, James, B.A.	1862	
Shirley, Joseph W., M.D.	1863	(Deceased.)
Shirreff, W. T., M.D.	1903	Fitzroy Harbour.
8, 11Shorey, Edm. C., B.A., '86; M.A.	1887	Honolulu, H.I.
5Shortell, D. H., M.A.	1898	Washburn.
4, 13, 22Shortt, Adam, (Professor, Queen's Univ.) B.A., 1883; M.A.	1884	Kingston.
*7, 17Shortt, J. S., B.A., '94; M.A.	1897	De Winton, Alta.
Shurie, Josiah S., B.A.	1889	
*Sieveright, James, B.A.	1855	Manitowaning.
Sieveright, James A., M.D.	1870	(Deceased.)
8Sills, Wm. R., M.A.	1895	Kingston.
Silver, L. P., B.Sc.	1902	
Simpson, B. L., B.A., 1903; M.A.	1904	Peterborough.

Name.	Date of Graduation.	Address.
Simpson, James, B.A..	1864	
Simpson, W. J., M.D..	1899	Kingston.
Sinclair, Anna E., B.A..	1901	Norm'l School, Ottawa.
Sinclair, H. H., B.A..	1899	
4*Sinclair, John A., M.A..	1890	Regina.
*Sinclair, Robert C. H., B.A....	1888	Fenelon Falls.
Singleton, A. H., B.A., 1901; M.D..	1904	Newboro.
1, 2, 19Skelton, O., M.A..	1899	Cornwall.
Skimin, Nellie St. G., M.D..	1892	Hamilton.
Skinner, Henry, M.D..	1862	(Deceased.)
Skinner, John S., B.A..	1883	
9Slack, E. B., B.A..	1902	Toronto.
Smart, V. I., B.A..	1898	
Smeeton, W. F., B.Sc..	1900	Oakville.
Smellie, Donald McK., M.D..	1888	(Deceased.)
*Smellie, George, D.D..	1885	(Deceased.)
Smellie, James F., B.A..	1890	Ottawa.
Smirle, Harriette H., (Wilson) M.A....	1903	Winnipeg.
Smith, A. L., M.D..	1902	Kingston.
Smith, Alexander L., B.A..	1883	Alexandria.
Smith, Annie, B.A..	1894	Walkerville.
Smith, A. G., M.D..	1898	Deseronto.
Smith, D. T., M.D..	1901	Ottawa.
Smith, Elizabeth, (Shortt) M.D.	1884	Kingston.
Smith, Frederick B., M.D..	1886	Watertown, N.Y.
Smith, George, M.D..	1858	(Deceased.)
Smith, George H. W., M.D..	1892	Sydney, N.S.W.
Smith, Gordon J., B.A..	1886	Paris.
Smith, J. E., B.A..	1901	Cookstown.
*Smith, James F., M.D..	1888	Bradford.
*Smith, James C., D.D., B.A., 1861; M.A., 1863; B.D..	1880	(Deceased.)
Smith, J. C., B.A..	1898	Kingston.
Smith, James H., B.A..	1903	Kuhryville.
Smith, James H., M.A..	1893	Ridgetown.
Smith, John R., M.D..	1863	(Deceased.)
Smith, N., M.D..	1904	Kingston.
Smith, Ralph G., M.D..	1893	Oakland, Iowa.
Smith, S. M., M.D..	1900	S. Milwaukee, Wis.
Smith, Violet B., B.A..	1897	Boston.
Smyth, Robert A., M.D..	1883	(Deceased.)
*Smyth, William J., B.A..	1881	(Deceased.)
Smythe, George E., B.A..	1897	Kingston.
*Snell, G. W., B.A..	1899	West Brome, Que.
3Snell, Joseph, M.A..	1890	Wiarton.

Name.	Date of Graduation.	Address.
Snider, Elias T., M.D.	1889	Inwood.
Snider, Samuel H., M.D.	1881	Carman, Man.
Snook, Marcus S., B.A.	1881	(Deceased.)
Snowden, H. A., B.A.	1902	
*Snowdon, John M., B.A.	1885	Ottawa.
Snyder, H. Adell, M.A.	1895	
Snyder, T., M.D.	1899	Niagara Falls, N.Y.
*Solandt, D. M., B.A.	1900	Kingston.
Somerville, Jas. A., B.A., 1858; M.D.	1866	(Deceased.)
*Somerville, James H., B.A.	1881	Norwood.
Spafford, H. W., M.D.	1855	(Deceased.)
24Spankie, Wm., B.A., '62; M.D.	1885	Wolfe Island.
Spankie, James E., M.D.	1891	Greenwood, Y.T.
Sparham, George S., M.D.	1859	(Deceased.)
Sparks, J. F., B.A.	1901	Kingston.
Sparks, W. F., B.A.	1903	Brampton.
Spear, Hugh, M.D.	1873	Toronto.
*Spence, Alexander, D.D.	1864	(Deceased.)
Spence, H. D. L., B.A.	1904	Kingston.
Spence, J. C., B.A.	1903	Ottawa.
Spencer, Henry, M.D.	1862	(Deceased.)
Spooner, Armon C., B.A.	1896	Latimer.
Spooner, George D., M.D.	1860	(Deceased.)
Spooner, Hiram R., M.D.	1869	(Deceased.)
Spooner, Margaret M., (Abbott) B.A.	1886	280 James Place, Brooklyn, N.Y.
Spotswood, W. A. J., M.D.	1903	Alexandria.
Sproat, Alexander, B.A.	1853	(Deceased.)
*Sproul, Nathaniel J., B.A.	1891	
Squire, George H., B.A.	1893	Kingston.
Squire, R. L., B.Sc.	1904	Kingston.
Squire, Wm. W., B.A., '54; M.A.	1864	(Deceased.)
Staley, A. A., M.D.	1903	Wolfe Island.
Stanley, Rt. Hon. Earl Derby, LL.D.	1889	England.
Stanley, J. N., M.A.	1901	Port Colborne.
29Staples, Louis, M.A.	1895	Kingston.
*Steele, Jacob, B.A., 1883; B.D.	1889	Callander.
Stevens, F. G., B.Sc., 1900; M.E.	1901	Rossland, B. C.
Stevens, Nathaniel T., M.D.	1892	Clifton, Ill.
Stevenson, Alexander J., B.A.	1882	Minden.
Stevenson, John A., M.D.	1894	Chicago.
*Stevenson, John F., D.D.	1880	(Deceased.)
Stewart, Alexander, M.D.	1889	Chicago, Ill.
Stewart, Alexander J., M.D.	1869	
Stewart, Daniel W., B.A.	1884	Renfrew.

Name.	Date of Graduation.	Address.
Stewart, Ernest J., B.A.	1896	
Stewart, George G., M.D.	1895	Elmside. Que.
6Stewart, James, M.D.	1894	(Deceased.)
8Stewart, James A., M.D.	1892	
Stewart, John M., M.D.	1882	Chesley.
Stewart, J. R., B.A.	1904	Waba.
Stewart, Margaret J., B.A.	1902	Renfrew.
Stewart, Martha G., B.A.	1902	Laguerre, Que.
3Stewart, William, B.A.	1879	Toronto.
Stewart, A. E., M.D.	1898	Chicago, Ill.
Stilwell. A. J., B.Sc.	1902	Bracebridge.
Stirling, James A., M.D.	1885	St. Thomas.
Stirling, John E., M.D.	1884	
Storms, Douglas G., M.D.	1886	Hamilton.
34Story, Selina G., M.A.	1901	Almonte.
Stothers, R., B.A.	1899	Ottawa.
Stowell, Olmsby O., M.D.	1869	
*Strachan, Daniel, B.A.	1889	Brockville.
Strange, John, B.A., 1877; LL.B.	1883	Kingston.
Stratton, C. M., M.D.	1902	Kingston.
*Stuart, James G., B.A.	1876	London.
Stuart, Irwin, B.A.	1870	(Deceased.)
Stuart, Wm. A., B.A., 1888; M.D.	1891	Clarenceville, Que.
Stubbs, S. J., B.A.	1899	Smith's Falls.
*Sturgeon, Robert J., B.A.	1887	Burk's Falls.
Sullivan, D. V., B.A., 1890; M.D.	1892	(Deceased.)
Sullivan, J. F., B.A.	1904	Ottawa.
Sullivan, Hon. Michael, (Prof., Queen's Univ.) M.D.	1858	Kingston.
Sullivan, Thomas, M.D.	1863	(Deceased.)
Sullivan, William, B.A.	1862	Kingston.
Supple, J. A., B.A.	1899	Pembroke.
Sutherland, E., B.Sc.	1902	Belleville.
Sutherland, J. C., B.A.	1901	Richmond, Que.
Sutherland, Robert, B.A.	1852	(Deceased.)
Sweetland, John, M.D.	1858	Ottawa.
Switzer, Wilson I., M.D.	1862	(Deceased.)
Symmes, C. R., M.D.	1903	Aylmer, Que.
*Symonds, H., D.D.	1901	Montreal.
Symington, Thomas J., M.D.	1881	Camlachie.
Tandy, H., B.A., 1900; M.D.	1904	Kingston.
Tandy, W. R., M.A.	1899	Kingston.
Tarbell, Horace S., B.A.	1862	
Tassie, William, LL.D.	1871	(Deceased.)
Taylor, James, M.D.	1864	(Deceased.)
Taylor, John A., B.A.	1892	Dutton.
Taylor, Mabel A., B.A.	1903	Hamilton.

Name.	Date of Graduation.	Address.
Taylor, William F., M.D.	1881	Brisbane, Queensland.
Teepel, Etson W., M.D.	1896	(Deceased.)
3, (*b*)Teskey, Kathleen, B. A., 1903; M.A.	1904	Hamilton.
Theal, George McC., LL.D.	1895	Cape Town, Africa.
Thibaudeau, P. H., B.A.	1903	Markdale.
Thibodo, Augustus J., B.A., '51; M.A.	1854	Niagara Falls, N. Y.
Thibodo, Francis H., M.D.	1895	Prairie City, Oregon.
Thibodo, Oliver, M.D.	1857	Los Angelos, Cal.
Thibodo, Robert, B.A., '62; M.D.	1862	(Deceased.)
Thibodo, Wm. B., B.A., '62; M.A.	1865	Rat Portage.
Thirkell, William G., M.D.	1861	Sodus, N. Y.
Thompson, A. M., M.A.	1902	Sarnia.
Thompson, A. Y., B.A.	1903	Strathroy.
Thompson, E. J., M.D.	1901	Kingston.
Thompson, Edna G., B.A.	1903	Kingston.
*Thompson, George, B.A.	1863	Scotland.
*Thompson, George M., B.A.	1878	Glasgow, Scotland.
Thompson, Hiram B., M.D.	1888	Barrie.
Thompson, John, B.A.	1855	(Deceased.)
*Thompson, John R., B.A., 1865; M.A.	1868	(Deceased.)
Thompson, Lottie, B.A.	1903	Picton.
Thompson, Maggie J., B.A.	1894	Almonte.
Thompson, P. M., M.A.	1899	
*Thompson, Thomas J., M.A.	1895	
Thompson, William D., M.D.	1892	Brooklyn, N. Y.
Thompson, William McC., B.A.	1888	Dunbar, N. S.
Thomson, J. P., F.R.S.G.S., LL.D.	1903	Brisbane, Australia.
Thorburn, John, LL.D.	1880	Ottawa.
Thorne, Stephen H., M.D.	1887	Bobcaygeon.
Thorne, James, B.A.	1897	Ottawa.
Thornton, Thomas H., M.D.	1870	Consecon.
Thornton, William H., M.D.	1864	(Deceased.)
Tilman, Herbert A., M.D.	1895	Kingston, Jamaica.
Tilman, Harry G., M.D.	1889	Kingston, Jamaica.
Tinkess, A. L., M.D.	1898	Plessis, N. Y.
Todd, Alpheus, C.M.G., LL.D.	1881	(Deceased.)
Todd, Samuel G., M.D.	1890	Meshawaka, Ind.
Tompkins, Louise H., B.A.	1904	Brockville.
Townsend, Harland W., B.A.	1887	(Deceased.)
Tracey, Robert, M.D.	1862	Belleville.
Tracey, Thomas B., M.D.	1865	(Deceased.)
*Trotter, Thomas, (President of Acadia University) D.D.	1903	Wolfville, N. S.

Name.	Date of Graduation.	Address.
Trousdale, James D., M.D.	1860	(Deceased.)
Truscott, S. A., M.A.	1904	Sydenham.
Tudhope, M. B., B.A.	1897	Orillia.
Turnbull, Agnes M., (Medical Missionary) M.D.	1892	Indore, India.
*Turnbull, James H., M.A.	1896	Ottawa.
Turner, John B., B.A.	1889	Hamilton.
Turner, Adelaide, M.D.	1897	New York.
Tuttle, Henry E., M.D.	1892	Chases' Mills, N. Y.
Tuttle, Leslie, M.D.	1875	Tweed.
Tyner, W. G., B.A., 1898; M.D.	1901	Kingston.
*Ure, Robert, D.D.	1876	Goderich.
Valleau, Archibald J., M.D.	1891	Wolcott, Vt.
Valleau, George Z., M.D.	1867	
Van Allen, John R., M.D.	1871	Denver, Col.
Van Ness, C. S., M.D.	1904	Wolfe Island.
Van Vlack, Gilbert J., M.D.	1869	(Deceased.)
Vaux, M. Lillian, (MacKinnon) M.A.	1903	Toronto.
Vercoe, F. H., B.A.	1900	
1Voaden, J., M.A.	1903	
Volume, D. A., B.A.	1898	Rose Bank, Man.
Waddell, W. H., M.D.	1880	North Augusta.
Wade, Robert J., M.D.	1888	Brighton.
Wade, Wm. R., M.D.	1888	(Deceased.)
Wafer, Francis M., M.D.	1867	(Deceased.)
Wager, Ephraim N., M.D.	1897	Hayburn.
Waldren, H. M., M.D.	1898	Dayton, N. Dak.
Walkem, Wm. W., M.D.	1873	Creston, Y.T.
Walkem, R. K., B.A.	1902	Vancouver, B.C.
Walker, Allen H., M.D.	1867	Toronto.
Walker, Andrew, B.A.	1901	
Walker, Archibald D., M.D.	1888	Riverside, Cal.
Walker, C. Wesley, B.A.	1902	(Deceased.)
Walker, H., M.D.	1897	Riverside, Cal.
Walker, Hattie A., M.D.	1890	(Deceased.)
Walker, H., B.A., 1902; B.Sc.	1904	Morewood.
*Walker, James, B.A.	1894	
Walker, Stanley, M.D.	1889	Chebanse, Ill.
14, 9Walker, Thomas L., (Prof., Univ. of Toronto) M.A.	1890	Toronto.
*Walkinshaw, Wm., B.A., 1898; M.D.	1893	Stillwell, Ind.
Walks, R. H., B.A.	1900	Brooklin, Ont.
*Wallace, Alexander, B.A.	1847	(Deceased.)
Wallace, David, M.D.	1881	Metcalfe, Ont.
*2, 6, 17Wallace, James, M.A., '98; B.D.	1901	Lindsay.

Name.	Date of Graduation.	Address.
Wallace, O. S. C., (Chancellor of McMaster Univ.) LL.D.	1903	Toronto.
Wallbridge, Asa F., B.A.	1854	Newcastle.
Ward, G. C. Tremaine, M.D.	1879	Napanee.
Ward, G. H., M.D.	1903	Napanee.
Ward, W., B.A.	1903	Kingston.
Wardlaw, James S., M.D.	1888	Galt.
*Wardrope, Thomas, D.D.	1878	Guelph.
Warner, Albert F., M.D.	1887	Napanee.
Warren, F. R. H., B.A.	1900	Balderson.
Warren, L. A. H., M.A.	1902	Balderson.
Wartman, Philander G., M.D.	1864	(Deceased.)
Waters, John F., B.A.	1884	Ottawa.
Watson, Alice R., B.A.	1902	Kingston.
Watson, Andrew, B.A.	1861	
Watson, Charles V., M.D.	1863	
*Watson, David, B.A., 1850; M.A., 1852; D.D.	1886	Beaverton.
Watson, Donald, B.A.	1851	(Deceased.)
Watson, E. C., M.A., 1895; M.D.	1899	Detroit.
Watson, G. A., B.A.	1904	Williamstown.
*Watson, James S., B.A.	1895	Minnedosa.
*Watson, Peter, B.A.	1852	(Deceased.)
Watts, Ezra J., M.D.	1886	
*Watts, J. R., B.A., 1901; B.D.	1904	Shelburne.
Watts, Thomas E., M.D.	1890	Natural Bridge, N.Y.
Way, Hon. Samuel J., (Lieut.-Gov. and Chief Justice, South Australia) LL.D.	1895	Adelaide, South Aus.
Weatherhead, G. F., B.A., 1898; M.D.	1903	Brockville.
Webster, A. R., B.Sc.	1904	Gananoque.
Webster, B. E., B.A., 1895; M.D.	1896	Kingston.
Webster, Charles R., B.A.	1891	Kingston.
Webster, James, B.A.	1857	(Deceased.)
Webster, George R., B.A.	1875	(Deceased.)
Webster, W. J., M.D.	1884	
Weekes, W. J., M.D.	1865	Ottawa.
Weese, Willametta	1903	Pembrooke.
Weir, Janet, M.D.	1891	Merrickville.
Weir, William, M.D.	1861	(Deceased.)
11, (*b*)Wells, E. J., B.A.	1903	(Deceased.)
Wells, James Walter, B.Sc.	1898	Belleville.
Wellwood, J. A., B.A., 1901; M.D	1903	Fordyce.
Westlake, Henry W., B.A.	1882	
Wheeler, James W., M.D.	1892	Cornwall.
White, Albert N., M.D.	1885	Denver, Col.

Name.	Date of Graduation.	Address.
White, James W., M.D..	1891	Chicago, Ill.
White, Joseph F., B.A..	1877	Shanty Bay, Ont.
White, Lizzie R. (Leslie), B.A..	1895	Kingston.
Whiting, C. C., M.A..	1902	Toledo.
Whitney, Arthur W., M.D.. ...	1888	St. Paul, Minn.
Whitney, J. P., M.P.P., LL.D.,	1903	Prescott.
*Whiteman, Richard, B.A..	1886	Toronto.
Whitteker, Walter C., M.D... ..	1895	Avonmore.
Whyte, William M., B.A..	1896	Pakenham.
Wight, L. S., B.A..	1901	Deseronto.
Wilgar, W. P., B.Sc..	1903	Cobourg.
*Wilkie, William D., B.A..	1891	
Wilkinson, A. T., B.A..	1904	Pincher Creek, Alta.
Williams, E. J. F., B.A., 1903; M.D..	1904	Brockville.
Williams, Herbert S., M.D.. ...	1884	Vernon, Y.T.
Williams, Hugh G., M.D..	1894	
Williams, H. Sophia, B.A..	1899	(Deceased.)
Williams, Mary I., B.A..	1904	St. Thomas.
Williams, W. H., M.A..	1903	Picton.
Williamson, A. R. B., B.A., 1895; M.A., 1896; M.D..	1899	Kingston.
Williamson, E. J., B.A., '98; M.A.	1900	Kingston.
Williamson, G. H., B.A...	1899	Kingston.
Williamson, H. J., B.A..	1901	Kingston.
*Wills, Michael, LL.D..	1861	(Deceased.)
Wilmer, G. H., B.A..	1888	Rockspring.
Wilson, Annie J., B.A..	1904	Carp.
Wilson, Arthur C., M.D..	1891	Perth.
Wilson, Caroline L. M., B.A....	1890	Fleming, Assa.
Wilson, Charles J. C., M.D.. ..	1869	Montreal.
[1]Wilson, Harry L., (Prof., John Hopkins University) B.A., 1887; M.A., 1888; LL.D.. ...	1903	Baltimore, Md.
Wilson, Jessie A., B.A..	1902	Gananoque.
Wilson, John A., M.D..	1863	(Deceased.)
Wilson, J. H., B.A..	1900	Smith's Falls.
Wilson, J. L., B.A..	1901	
*Wilson, Matthew H., B.A.. ...	1894	Snake River.
[6]Wilson, R. A., B.A., 1901; M.A.	1902	Renfrew.
Wilson, Thomas, B.A., '77; M.D.	1880	Tara.
Wilson, T. A., M.D..	1900	Port Essington, Y.T.
*Wilson, T. R., B.A..	1897	Marathon.
Wilson, W. A., B.A..	1897	Gananoque.
[2]Windel, Henry C., M.A., 1896; M.D..	1902	Pontypool.

Name.	Date of Graduation.	Address.
Witheril, E. R., B.A.	1899	Athens.
9Wood, Isaac, (Prof., Queen's Univ.) B.A., 1884; M.A., 1891; M.D.	1892	Kingston.
Woods, I. H., B.A.	1903	London Junction.
Woods, S. A., B.A.	1898	Metcalfe.
Workman, C. W., B.Sc.	1903	Kingston.
Workman, J. K., B.Sc.	1904	Kingston.
Workman, W., M.D.	1903	Kingston.
Wright, E. A., B.A.	1902	Renfrew.
Wright, Edward W., M.D.	1886	
Wright, H. Mabel, B.A.	1901	Renfrew.
*Wright, John J., B.A.	1885	White Horse, Y.T.
Wright, Josephine, B.A.	1892	
Wright, R. Ramsay, (Vice-President of Univ. of Toronto and Dean of the Faculty of Arts), LL.D.	1903	Toronto.
Wright, Thomas A., M.D.	1888	Russell Man.
Wylie, James, B.A.	1864	(Deceased.)
Yates, Horatio, M.D.	1863	(Deceased.)
Yates, Octavius, M.D.	1856	(Deceased.)
Yates, Daintry B., B.A.	1898	Kingston.
*Yeomans, Geo. A., B.A.	1863	Deseronto.
Yeomans, Horace P., B.A., '60; M.D.	1863	(Deceased.)
Young, Alexander, B.A.	1895	Blakeney.
*Young, Colin G., B.A.	1893	Prince Albert.
Young, Daniel, M.D.	1862	Adolphustown.
Young, David, M.D.	1871	Lower Fort Garry, Man.
Young, Frederick M., B.A.	1886	Nanaimo.
Young, George P., LL.D.	1882	(Deceased.)
Young, Henry E., B.A.	1883	Chicago.
*Young, John, B.A., 1882; M.A.	1884	Hamilton.
Young, J. M., B.A., 1902; M.D.	1904	Renfrew.
Young, M. R., B.A., 1897; M.D.	1901	Millsville, N. S.
*Young, Robert, B.A.	1890	Pakenham.
Young, Ward, B.A., 1896; M.D.	1898	S. Framingham, Mas.
Young, Sir Wm., Chief Justice, LL.D.	1881	(Deceased.)
Young, William A., M.D.	1894	Westfield, Vt.
Young, William J., M.D.	1883	(Deceased.)
Youngson, Mary, B.A.	1898	Kingston.
Yourex, John McGill, M.D.	1876	Lonsdale.
Zwicker, F. G., M.D.	1903	Halifax, N.S.

ALUMNI.

The Registrar will be much obliged for notice of additions or corrections to this list.

Name.	Date of First Registration.	Address.
Abrey, James	1893	Monkton.
Alexander, W. A.	1893	Bishop's Mills.
Allen, Andrew	1884	Balderson's Corners.
*Allen, William F.	1882	Denver, Col.
Allen, Mary (Menzies)	1890	Kingston.
*Andrew, Joseph	1879	Margaret, Man.
Argue, Andrew W.	1888	Stittsville.
Back, W. G.	1891	Portage du Fort.
*Bailie, Robert	1889	(Deceased.)
Bain, W. J.	1893	Elora.
Bain, Wm. R.	1858	Montreal.
Baker, W. R.	1894	Newburgh.
*Ball, William Macpherson S.	1842	(Deceased.)
Barker, John	1897	Somerbury, Assa.
*Barr, John	1857	(Deceased.)
Barr, Isabel (McPherson)	1890	Hamilton.
Bamford, Frederick J.	1876	Winnipeg.
Bawden, J. R.	1855	Kingston.
Bell, J. W.	1893	Kingston.
Bell P. M.	1894	Westbrook.
*Bennett, James, B.A.	1881	L'Orignal.
Bennett, Margaret	1896	Omemee.
Bently, Carrie L., (Scott)	1889	Toronto.
Bertram, Thomas	1880	Dundas.
*Best, D. W.	1889	Beaverton.
Bethune, Alexander	1886	London.
Bethune, James, Q.C.	1856	(Deceased.)
Bethune, William S.	1879	Wingham.
Birch, Ada L.	1895	Kingston.
*Black, William, B.A.	1889	Nelson, Man.
Blane, William	1898	Renfrew.
Booth, Jackson C.	1882	Ottawa.
Booth, John F.	1883	Ottawa.
*Borthwick, H. J.	1855	Morden, Man.
Boyle, Thomas	1884	Gananoque.
Bradbury, Emily	1892	Gananoque.
Bradley, J.	1896	Peterboro.
Bristol, Emily F.	1886	Napanee.
*Brokenshire, William H	1885	
Brown, P. W.	1896	Kingston.
Brownell, James E.	1877	Avonmore.
Bruce, David A. J.	1886	
Bruce, Edward W.	1886	Toronto.

Name.	Date of First Registration.	Address.
Burger, Charles M.	1886	Hudson, Que.
Burrows, Annie M.	1889	Kingston.
Burt, Ellen A. A.	1890	Caldwell.
Bute, J. H.	1894	Houston, Texas.
Byers, D. R.	1895	Gananoque.
*Buyers, Henry	1848	(Deceased.)
Callaghan, Etta	1888	Kingston.
Calvin, H. A.	1868	Garden Island.
*Camelon, David	1853	(Deceased.)
Camelon, John M.	1885	Chicago.
Cameron, Colin, K. O.	1889	Iroquois.
Cameron, Donald	1888	(Deceased.)
Cameron, A. H., B.A.	1869	Napinka, Man.
Cameron, John S.	1889	Wellington.
*Cameron, Hugh	1856	(Deceased.)
*Cameron, J. J., M.A.	1871	Athens.
*Campbell, Charles A.	1887	Lakefield.
Campbell, John R.	1879	Wingham.
Campbell, Margaret A.	1895	Smith's Falls.
Cannon, J. D.	1894	Kingston.
Carey, M.	1893	Gananoque.
Cargill, Henry	1856	Cargill.
*Carmichael, James, B.A.	1858	(Deceased.)
Carr-Harris, D.	1893	Kingston.
Carr-Harris, Mary A (Gunn)	**1893**	**Cairo, Egypt.**
Carr-Harris, R. R.	1896	Kingston.
Carson, Joseph T.	1891	(Deceased.)
Cartwright, C.	1894	Kingston.
Cartwright, Madeline L. (Matheson)	1889	Kingston.
Caswell, W. G.	1896	Carleton Place.
Chambers, John N.	1875	Woodstock.
*Chambers, W. W.	1871	Erzeroum, Turkey.
Chisholm, G. W.	1895	Thamesford.
Chown, Susie	1894	Lucan.
Chown, Daisy	1898	Kingston.
Clapp, David P.	1873	Harrison.
Clarke, H. J.	1893	Belleville.
Clothier, James O.	1890	Kemptville.
Clow, C. N.	1895	Lyn.
Clune, Ella	1889	Warkworth.
Coleman, W. W.	1886	Seeley's Bay.
Cook, Florence	1893	Kingston.
Cook, William	1858	Quebec.
Conklin, J. D.	1894	Winnipeg.
*Connery, D. G. S., M.A.	1890	Toronto.
Cooper, E. G.	1894	Lanark.
Corbett, Charles H.	1865	Kingston.

Name.	Date of First Registration.	Address.
Cotton, M. P.	1895	Ottawa.
*Crawford, Angus	1869	
Creeggan, Alfred H.	1889	Kingston.
*Currie, E. C.	1890	Delhi.
Currie, P. W.	1895	Kingston.
Curtis, Henry H.	1887	Montreal.
Dargavel, R. B.	1895	Newboro.
Day, Ila B.	1898	Harrowsmith.
Day, Lewis J.	1892	Cataraqui.
Devitt, H.	1895	Easton's Corners.
Dickson, Edwin H.	1867	Waco, Texas.
Dix, O. J.	1895	Kingston.
*Dodds, James A.	1886	Yacatecas, Mex.
*Doudiet, C. A.	1866	Buckingham, Que.
Douglas, John J.	1881	
*Dow, James.	1882	
Draffin, Isabel	1895	Ottawa.
Dresser, John A.	1889	Richmond, Que.
Drinnan, John K.	1887	Medicine Hat, Assa.
Drummond, Robert J.	1855	Perth.
Duff, John M.	1875	Guelph.
Duff, John	1850	Kingston.
*Dunning, Harry N.	1883	Watertown, N.Y.
Ellicott, T. W. H.	1896	Montreal.
Elliott, E. G.	1895	Kingston.
Elmore, Minor M.	1875	(Deceased.)
Emmons, John	1887	Shannonville.
*England, Luther M.	1890	
Farnden, Hunter R.	1842	
Farrell, Jennie (Dyde)	1883	Kingston.
Fenwick, Effie L.	1898	Ottawa.
Fenwick, Chrissie.	1898	Kingston.
Ferguson, A.	1895	Williamstown.
*Ferguson, John, B.A.	1858	Maple Valley, Man.
Flanigan, John	1858	Chicago.
Foik, H. J.	1897	Colborne.
Folger, Marion	1884	(Deceased.)
*Forest, David.	1879	Walton, Ont.
Fowler, Catherine G.	1893	Kingston.
*Fraser, John	1888	North Shore, C.B.
Fraser, Marion	1894	L'Orignal.
Fraser, Nutting S.	1881	St. John's, Nfld.
Fraser, R. A.	1894	L'Orignal.
Fraser, Francis H.	1883	(Deceased.)
Gahan, Percy A.	1886	Windfall.
Galbraith, Malcolm C.	1853	Bowmanville.

Name.	First Date of Registration.	Address.
*Gallup, E. C.	1888	Mohawk.
Garret, William R.	1884	
*Gerrior, John P.	1884	
Gibson, Arthur	1897	Kingston.
Gibson, Sara	1888	Belleville.
Gillies, John A.	1889	Braeside.
Girvin, H.	1896	Kingston.
Goodfellow, Joseph	1891	Parham.
*Goodwill, John	1858	Charlottetown, P.E.I.
Goodwin, Antoinette E.	1884	Studley, Halifax.
Goodwin, Ernest P.	1884	Cape Tormentine, N.B
Gordon, Robert A.	1882	
Gordon, W. B.	1893	Kingsford.
Gowan, T.	1894	Kingston.
Graham, R. S.	1894	Elginburg.
*Grant, D. R.	1889	Pincher Creek, Alta.
Graves, F. M.	1894	Kingston.
*Gray, James M.	1861	Selkirk, Man.
Greaves, Jennie H.	1880	Kingston.
Grenfell, Marion M.	1898	Arnprior.
Griffith, M. A.	1893	Balder, Man.
Hallett, William J.	1890	Sorrie.
Hamilton, Clark.	1848	Kingston.
Hamilton, John, Judge.	1844	Milton.
Hamilton, Max G.	1882	Hudson Bay Co.
Hamilton, William.	1858	
Harkness, Jefferson D.	1888	Kingston.
Head, John	1884	(Deceased.)
Heal, G. E.	1896	St. John's, Nfld.
Henderson, M.	1895	Sooke, B.C.
Hendry, Thomas	1868	California.
*Herald, Charles L.	1880	
Hill, Annie G.	1890	Riviere du Loup.
Hobart, S. W.	1879	Toronto.
Hodgins, James C.	1889	Toronto.
Hooper, John G.	1879	Teeswater.
Hooper, Vere G.	1880	
Honeywell, Ira E.	1890	Ottawa.
Houston, Martha (Campbell)	1889	Kingston.
Houston, Robert C.	1890	Toronto.
Hutton, Maude	1893	Barriefield.
*Hyland, David	1881	(Deceased.)
Ireland, Alexander H.	1866	Toronto.
Ireland, James O.	1850	Toronto.
Ireland, William.	1850	Chatham.
Irvine, Richard W.	1878	Deseronto.
Irving, Lilla B. (Farrell)	1884	Utica, N.Y.

Name.	Date of First Registration.	Address.
*Jack, Hugh	1889	
Jackson, Alfred R.	1889	S. Vancouver, B.C.
Jackson, Nelson	1883	
Johnston, Ethel L.	1896	Kingston.
Johnston, William	1878	McLeod, N.W.T.
Jones, Alfred W.	1888	Kingston.
Jones, Charles P.	1887	Kingston.
Kean, Isabel H.	1890	Orillia.
*Kellock, David	1878	Richmond, Que.
Kemp, John W.	1888	Carp.
King, Mary A. (Marquis)	1888	Saratoga Spr'gs, N.Y.
Kingsbury, H. C. W.	1896	Roseham, P.Q.
Kingston, E. A.	1894	Picton.
Kirkpatrick, Kathleen	1897	Kingston.
Kirkwood, Daniel H.	1883	
*Laing, Douglass	1899	Kingston.
*Lamont, Hugh, D.D.	1861	(Deceased.)
Lane, Morgan	1863	Clayton, Ont.
Lapsley, N. T. R.	1893	Toronto.
Larmer, Elizabeth E.	1895	Millbrook.
*Legere, Prosper L.	1856	(Deceased.)
Lingwood, F. H.	1895	Lakefield.
Lindsay, Ethel M.	1893	Kingston.
Lochead, H. S.	1893	Centreville.
Mabee, G. E.	1896	Port Hope.
*Madill, James C.	1889	Little Britain, N.W.
Magee, R. W.	1898	Fort William.
Malloy, William	1865	
Malone, Vida	1898	Toronto.
Maudson, W. H.	1894	Kingston.
Maxwell, John	1887	Alton.
Meade, H.	1895	Nassagaweya.
Menzies, A. D.	1888	Kalso, B.C.
Metcalfe, H. H.	1893	Kingston.
*Miller, David	1884	Winkley, Man.
Miller, Margaret D.	1895	Keene.
Milliken, J. B.	1894	Springbank.
Mills, James McV.	1884	Elsinore.
Minnes, James A.	1885	Kingston.
Minnes, Ethel G.	1895	Kingston.
Mohr, F. C.	1895	Arnprior.
Moodie, R. T.	1893	Perth.
Moir, Robert	1878	
Moore, J. L.	1896	Toronto.
Motherill, James W.	1873	(Deceased.)
Morton, Thomas P.	1890	Ottawa.
*Muckleston, W. J.	1864	Perth.

Name.	Date of First Registration.	Address.
*Mullin, Elias	1861	Toronto.
*Mullan, J. B.	1856	Fergus.
*Mullan, J. S.	1854	Stanley, N.B.
Mulock, William R.	1865	Winnipeg.
Munro, Donald G.	1880	Port Douglas, Man.
Murray, Elizabeth	1896	Kingston.
Murray, Thomas N.	1890	Orillia.
Macallister, Lachlin, M.D.	1861	Duntroon.
Macdonald, H. J.	1865	Winnipeg.
Macnee, Walter H.	1879	Kingston.
McArthur, Bessie	1888	Kingston.
McArthur, Charles	1879	
*McArthur, Dugald O.	1890	Melrose.
McArthur, John M.	1878	Chicago.
Macaulay, J.	1895	Montreal.
McCaig, J.	1894	Prescott.
McConnell, Jennie M.	1898	Dresden.
McConville, Jane	1895	Kingston.
McDonnell, Allen	1885	
*McDonald, Donald D.	1885	Caledonia.
McDonald, Duncan	1898	Admaston.
McDonald, P. D.	1896	Ottawa.
McDougall, Archibald J.	1891	Newburgh, N.Y.
McDonald, Belle, (Boyd)	1890	Kingston.
McDonald, William		(Deceased.)
*McEachern, Charles	1873	Inverness, Scotland.
McEachern, Duncan	1860	North Williamsburg.
McEwen, Thomas	1883	
*McFayden, Allen L., B.A.	1887	Mount Albert.
McGeach, William, M.D.	1861	Fingal.
*McGillivray, Alexander	1871	Toronto.
McGregor, Alexander	1862	Williamstown.
McGregor, A. A.	1896	Williamstown.
McIntosh, Hugh	1876	
McIntyre Andrew B.	1887	(Deceased.)
McIntyre, A. B.	1891	
*McIntyre, C. E.	1863	Oshawa.
McKay, Daniel C.	1889	Kingston.
*McKay, Norman T. C.	1883	Toronto.
McKenzie, John J.		
McKenty, D.	1894	Kingston.
McKerracher, Mary	1896	Ottawa.
*McKinnon, John	1842	(Deceased.)
*McLarin, Archibald	1878	Springfield, Man.
McLean, Archibald B.	1865	Smith's Falls.
McLean, A. E.	1895	Williamstown.
McLean, A. L.	1895	Berwick.

Name.	Date of First Registration.	Address.
McLean, Donald A.	1877	
McLean, John	1874	(Deceased.)
McLennan, Duncan L.	1887	Kincardine.
Maclennan, John D.	1889	(Deceased.)
McLennan, Neil K.	1888	Middle River, C.B.
*McLeod, Alexander K.		Brighton.
McLeod, Charles L.	1889	
McLeod, Janey A.	1894	Kingston.
*McMillan, George, B.A.	1875	Kentville, N.S.
McNab, Frank	1880	Kingston.
McNaughton, Alexander	1888	Manitoba.
McNaughton, Alexander K.	1887	Marcellus, N.Y.
*McNeil, John	1880	Cowal.
McNutt, George A.	1878	
McPherson, E. A.	1896	Prescott.
*McPherson, Lachlin	1842	(Deceased.)
MacRae, F. A.	1894	Big Baddeck, C.B.
McRae, J. F.	1893	Glen Robertson.
McRae, Philip K.	1888	North River, C.B.
McRossie, Allen	1880	Brooklyn, N.Y.
McRossie, Hattie (McCammon).	1887	
Nelson, John	1887	Bearbrook.
Nichol, C. O.	1895	Binbrook.
O'Connor, Edward J.	1888	Ottawa.
O'Connor, W. J.	1894	Deseronto.
O'Donnell, E. J.	1893	Kingston.
Oronhyatekha, W. A. H.	1888	Toronto.
Osborne, N. A.	1897	Waterville, N.S.
Ovens, Rufus K.	1879	Wilton.
Paine, Charles C.	1889	
Park, R.	1894	Goderich.
Patterson	1897	Stella.
*Paul, James T.	1842	(Deceased.)
*Percival, Herbert A.	1886	Mishawakena, Ind.
Pollock, John R.	1877	(Deceased.)
Pooke, Margaret E.	1896	Perth.
*Porteous, George	1854	(Deceased.)
Potter, J. S.	1894	Kingston.
Powell, G. L.	1894	Sutton West.
Pratt, Abraham A.	1879	
Purdy, Mary E. F.	1886	
Quincey, J. A.	1898	Thornby.
*Rattee, Edward J., B.A.	1890	Noel, N.S.
Read, G. E.	1896	Rock Island, Que.
Renton, Thomas T.	1879	Kingston.
Reynolds, Annie F.	1894	Gananoque.
Reynolds, Mary E.	1894	Gananoque.
Richards, Salt.	1883	
Richardson, John	1891	Brockville.

Name.	Date of First Registration.	Address.
Riddell, Alexander F.	1867	Montreal.
Rielly, F. V.	1898	Sydenham.
*Robertson, John.	1884	Hopewell, N.S.
Robertson, John D.	1859	Tarrawonga, Vic.
Roddick, James A.	1887	Lyndhurst.
Rose, Constance B.	1892	Ottawa.
*Rose, G. W.	1889	Warsaw.
Ross, Irvine.	1866	(Deceased.)
*Ross, Archibald.	1872	New York.
*Ross, Donald.	1853	Portland, Oregon.
*Ross, Hugh.	1884	
Ross, K. J. Livingstone.	1879	Portland, Oregon.
Ross, Thomas B.	1886	Montreal.
Roland, John S.	1889	Toronto.
Rowland, J.	1898	Montreal.
Roy, Henry.	1880	Chisholm, P.E.I.
Ruttan, A. C.	1895	Kingston.
Scammell, Gertrude.	1895	Joyceville.
*Scott, Marcus	1891	Detroit.
Scott, T. K.	1897	Iron Bridge, Algoma.
Shanks, William J.	1879	Chicago.
Sherlock, John M.	1879	Toronto.
Shirreff, Robert M.	1893	Fitzroy Harbour.
Shurtleff, M.	1895	Glenburnie.
*Shore, Godfrey.	1881	(Deceased.)
Simpson, Hugh.	1897	Orono.
Simpson, W. H. S.	1889	Brockville.
Sinclair, Jennie V.	1887	Indore, India.
Smith, A. F.	1897	Kingston.
Smith, Clifford E.	1893	Fairfield East.
Smith, Frederick.	1852	(Deceased.)
Smith, James.	1877	Toronto.
Smith, John.	1897	Renfrew.
Smith, John E.	1889	Arnot.
Smith, Robert L.	1879	Appleton.
*Smith, William S.	1877	Middleville.
*Smith, Thomas G., D.D.	1847	Kingston.
*Snodgrass, John A.	1868	Scotland.
Snyder, J. B.	1896	Lancaster.
Spear, R.	1893	Cobourg.
*Spencer, Hugh J.	1889	Marquette, Mich.
Spottswood, M. G.	1894	
Steen, Henrietta.	1888	Farran's Point.
Steers, Cherry.	1893	New York.
Stewart, Alexander S.	1878	(Deceased.)
Stewart, Daniel.	1883	(Deceased.)
Stewart, James A.	1892	Carleton Place.

Name.	Date of First Registration.	Address.
Stewart, R.	1893	Bluevale.
Stewart, R. T.	1895	Mitchell.
Stewart, William R.	1887	Notre-de-Laus, Que.
*Strachan, Donald	1865	Guelph.
Strange, O. S., M.D.	1842	Kingston.
Sullivan, P. H.	1893	Kingston.
Swales, Olive	1892	
Swets, Florence E.	1893	Montreal.
*Sym, F. Petry	1884	Wiarton.
*Taft, J. N.	1877	Brooklyn, N.Y.
Taggart, Robert	1890	Carleton Place.
Tandy, R. H. Norma	1896	Kingston.
*Taylor, Hugh	1873	Loch Winnoch.
Telgmann, Henrich B.	1887	New York.
*Thom, Leslie W.	1877	Flesherton.
Thomas, Henry P.	1882	Belleville.
Thompson, Andrew W.	1879	(Deceased.)
*Thompson, Archibald, B.A.	1890	Chatsworth.
Topliffe, Annie (Lapp)	1891	Glenvale.
Tracy, Thora D.	1897	Kingston.
Tripp, J. H.	1894	Fitzroy Harbour.
Twitchell, Marshall C.	1887	Burlington.
Van Blaricom, George B.	1889	
Varcoe, George F.	1886	Fenelon Falls.
Voaden, A.	1896	St. Thomas.
Wagner, W. G.	1894	South Bend, Indiana.
Waldron, Edward W.	1889	Kingston.
Walkem, Hugh	1875	Spence's Bridge, B.C.
Walkem, Walter, C.A.	1886	(Deceased.)
*Wallace, Robert	1842	(Deceased.)
Ward, David	1850	Almonte.
Ward, Marjory	1889	Renfrew.
Watson, Angus R.	1885	
Welch, Frederick	1867	Kingston.
White, Mary H.	1893	Stratford.
Whyte, W. M.	1893	Pakenham.
*Wilkins, T. W., B.A.	1863	Trenton.
Wilkie, Isabella	1896	Carleton Place.
Williams, A. S.	1896	Newmarket.
Wilson, Daniel A.	1886	Kingston.
Wilson, Samuel	1888	Allan's Mills.
Witheril, Ebenezer	1889	Westport.
Wright, Henry A.	1879	Trenton.
Young, J. A.	1894	London.
Young, E. T.	1895	Toronto.
Young, John G.	1892	Bristol, Que.
Young, William	1886	Peterboro.
Yourex, Edmund L.	1887	Kingston.

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The Registrar will be much obliged for notice of additions or corrections to this list.

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	G. F. Macdonnell, Esq., M.A.
	Bard, Alex. Muir, Esq., B.A.

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	J. H. Marshall, B.A., Windsor.
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Secretary-Treasurer	Mr. Thos. Alexander, London.
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	Dr. Ferguson, London.
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	Dr. Harvey, Wyoming.
	Dr. Newell, Watford.
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	Rev. P. McLeod, M.A., D.D., Atwood.
	R. W. Anglin, M.A., Essex.
	A. D. Griffin, B.A., Woodstock.
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	J. H. Mills, M.A., Waterford.
	Rev. A. McAulay, Mitchell.

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3rd Vice-President.. ..	Dr. L. W. Hoppin.
Secretary..	Dr. Geo. E. Hayunga.
Treasurer..	Mr. W. F. Marshall.
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Secretary-Treasurer . .	R. Laird.

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United States Government	97	volumes.
Dominion Government	44	“
Ontario Government	41	“
New Brunswick Government	2	“
Nova Scotia Government	6	“
New Zealand Government	9	“
Manitoba Government	3	“
British Columbia Government	2	“
South African Government	15	“
American Universities	97	“
Canadian Universities	10	“
Scotch Universities	8	“
English Universities	2	“
Miscellaneous Universities	26	“
Macmillan & Co.	28	“
Miscellaneous Donations	366	“
Total	756	“

BENEFACTIONS.

BEQUESTS AND SPECIAL ENDOWMENTS.

St. Andrew's Church Ladies' Association, Toronto—Scholarship	$ 800 00
Ladies of Kingston—Scholarship	500 00
His Royal Highness, The Prince of Wales—Prize	800 00
The late John Mowat, Kingston—Scholarship	800 00
The late John Alexander Lewis, Monro—Prize	400 00
The late George Michie, Toronto	2,000 00
The late M. C. Cameron, Goderich, Gælic Scholarship	1,000 00
The late Edward H. Hardy, Kingston	400 00
Mrs. Glass, Sarnia, for Henry Glass Memorial Scholarship	500 00
The late E. Lawson, Aberdeen—Dominion Scholarship	1,000 00
Friends of the late Principal Leitch—Memorial Scholarship	2,462 03
The late Rev. Alexander Buchan, Stirling—Scholarships	3,000 00
The late Mrs. Margaret W. McIntyre, Perth—Scholarship	400 00
The late John Watkins, Kingston—Elocution Lectureship	4,000 00
The late John Watkins, Kingston—Scholarship	1,300 00

David Strathern Dow, Toronto—Scholarship	1,500 00
The late Robert Sutherland, B.A., Walkerton	11,735 00
The late Alexander Rankin, Leamington, England—Scholarship	2,350 00
The late Alexander Spence, D.D., Ottawa	3,427 00
" " " " " Scholarship	1,000 00
The late James Michie, Toronto	4,000 00
The late David Greenshields, Montreal	5,000 00
The late James Anderson, Acton	500 00
Sir Sandford Fleming, K.C.M.G., LL.D., the Chancellor's Scholarship and Lectureship	10,000 00
John S. McDonald, Fon du Lac, Wis.—Bursary	1,500 00
Hon. Senator Gowan, C.M.G., LL.D., Barrie, Scholarship in Biology and Political Science	1,400 00
Friends of the late Dr. Williamson, Memorial Scholarships	3,100 00
The late Mrs. Nichols, Peterborough	24,500 00
The late Robert Anderson	1,800 00
The late Forbes McHardy, Toronto—Scholarship	500 00
Hugh Waddell, South Monaghan—for Scholarship in Divinity	2,000 00
Hugh Waddell—for additional Chair in Theology	5,000 00
Hon. Alexander Morris, Q.C., to found the Hon. William Morris Bursary	1,000 00
A. T. Fulton, Toronto	3,000 00
The late M. Doran, Kingston	21,384 00
The late Mrs. Malloch, Hamilton	2,000 00
The late Mrs. Mary Tawse—Scholarship	900 00
The late Jas. Stewart	5,000 00

ENDOWMENT OF CHAIRS AND TUTORSHIPS.

In 1888, William Nickle, Esq., Kingston, gave the sum of $2,500 to found "The William Nickle Tutorship in Mathematics."

In 1892, Hugh Waddell, Esq., South Monaghan, gave the sum of $2,500 to found, in memory of his father, "The Robert Waddell Tutorship" in Physics or Natural Science.

In 1893, John Roberts, Esq., Ottawa, bequeathed the sum of $40,000 to the University. In recognition of his generosity, the Trustees resolved that the Chair of Animal Biology should bear his name, and that the Chair of Botany should bear the name of John Roberts Allen, his executor.

In 1892, the Hon. Senator Gowan gave a contribution to be the nucleus of an endowment for a Chair of Political and Economic Science to bear the name of the late Right Hon. Sir John A. Macdonald, and added to it from time to time till in 1898 it amounted to upwards of $5,000.00. The Trustees then issued an appeal for the object to the friends of the great statesman, and this resulted in increasing the sum available to nearly $22,000. It was then decided to found the Chair, and Profesor Adam Shortt was made the first occupant and at the same time he was relieved of the charge of the library and Miss Lois Saunders was appointed Librarian at a salary of $400. On April 30th, 1899, the Sir John Chair was formally established, Sir Charles Tupper, Bart, M.P., pronouncing the oration in honour of his old leader, in the City Hall on that day.

The late Dr. Williamson prepared for "Doomsday Book" a history of the first fifty years of the University. He has given an account of the Funds raised at different times for general or special purposes during this period, with the names of subscribers, down to the Jubilee Fund of 1887-90. When the history is completed, an abridgement with a sketch of the different Funds and the principal contributors will be published in the Calendar.

ANNUAL AND OTHER CONTRIBUTIONS.

Session of St. Andrew's Church, Toronto—Scholarship. .	$100 00
J. Morgan Shaw, the Mayor's Scholarship	50 00
J. Roberts Allan, Ottawa	150 00
Lord Minto, Governor-General Scholarship No. 1.	75 00
Rev. John Mackie, M.A., Kingston	25 00

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Arts

PASS PAPERS.

Queen's University Examinations: April, 1904.

Junior Latin.

Translate :

Reliquum est ut de Q. Catuli auctoritate et sententia dicendum esse videatur. Qui cum ex vobis quaereret, si in uno Cn. Pompeio omnia poneretis, si quid eo factum esset, in quo spem essetis habituri, —cepit magnum suae virtutis fructum ac dignitatis, cum omnes una prope voce in ipso vos spem habituros esse dixistis. Etenim talis est vir, ut nulla res tanta sit ac tam difficilis, quam ille non et consilio regere et integritate tueri et virtute conficere possit.

1. Mention the chief opponents to the Manilian Law and the grounds of their opposition.

2. Parse and explain the syntax of *videatur*, *essetis habituri.*

Translate :

Parietes (me dius fidius) ut mihi videtur hujus curiae tibi gratias agere gestiunt, quod brevi tempore futura sit illa auctoritas in his majorum suorum et suis sedibus. Equidem cum C. Marcelli, viri optimi et commemorabili pietate praediti, lacrimas modo vobiscum viderem, omnium Marcellorum meum pectus memoria obfudit, quibus tu etiam mortuis, M. Marcello conservato, dignitatem suam reddidisti, nobilissimamque familiam jam ad paucos redactam paene ab interitu vindicasti.

1. Explain the subjunctue in *futura sit.*

2. *Omnium Marcellorum.* To whom does Cicero refer ?

O navis, referent in mare te novi
Fluctus! O quid agis ? Fortiter occupa
  Portum. Nonne vides ut
    Nudum remigio latus
Et malus celeri saucius Africo
Antennaeque gemant ac sine funibus
  Vix durare carinae
    Possint imperiosius
Aequor ? Non tibi sunt integra lintea,
Non di, quos iterum pressa voces malo.
  Quamvis Pontica pinus,
    Silvae filia nobilis.

Jactes et genus et nomen inutile;
Nil pictis timidus navita puppibus
  Fidit.

1. Explain the subjunctuie in *possint.*

2. *Pictis puppibus.* What does the poet allude to?

Translate into Latin prose:

We have seen your victory terminated at once by the result of your battles; we have seen no sword unsheathed in the city. The citizens whom we have lost were stricken down by the force of Mars, not by evil feelings let loose by victory; so that no man can doubt that Caius Cæsar would even raise many from the dead if that were possible, since he does preserve all those of that army that he can.

Sight translation:

Q. enim Ligarius, cum esset nulla belli suspicio, legatus in Africam cum C. Considio profectus est. Qua in legatione et civibus et sociis ita se probavit, ut decedens Considius provincia satis facere hominibus non posset, si quemquam alium provinciae praefecisset. Provinciam accepit invitus: cui sic praefuit in pace, ut et civibus et sociis gratissima esset ejus integritas ac fides.

Queen's University Examinations: April, 1904.

Senior Latin.

Translate:

1. Posset agi lege necne, pauci quondam sciebant; fastos enim vulgo non habebant. Erant in magna potentia, qui consulebantur; a quibus etiam dies tamquam a Chaldaeis petebatur. Inventus est scriba quidam, Cn. Flavius, qui cornicum oculos confixerit et singulis diebus ediscendis fastos populo proposuerit et ab ipsis causis iuris consultorum sapientiam compilarit. Itaque irati illi, quod sunt veriti, ne, dierum ratione pervulgata et cognita, sine sua opera lege agi posset, verba quaedam composuerunt, ut omnibus in rebus ipsi interessent. Cum hoc fieri bellissime posset: "Fundus Sabinus meus est:" "Immo meus:" deinde iudicium: noluerunt. "Fundus," inquit, "qui est in agro, qui sabinus vocatur." Satis verbose; cedo quid postea? "eum ego ex iure Quiritium meum esse aio." Cicero, *Pro Murena* xi.

2. "Bene et composite C. Caesar paulo ante in hoc ordine de vita et morte disseruit, credo falsa existumans ea quae de inferis memorantur, divorso itinere malos a bonis loca taetra, inculta, foeda atque formidulosa habere. Itaque censuit pecunias eorum publicandas, ipsos per municipia in custodiis habendos; videlicet timens ne, si Romae sint, aut a popularibus conjurationis aut a multitudine conducta per vim eripiantur. Quasi vero mali atque scelesti tantum modo in urbe et non per totam Italiam sint; aut non ibi plus possit audacia, ubi ad defendundum opes minores sunt. Quare vanum equidem hoc consilium est, si periculum ex illis metuit; sin in tanto omnium metu solus non timet, eo magis refert me mihi atque vobis timere. Sallust, *Catiline* lii.

Sketch the character of the speaker as revealed in the address of which this is a part.

3. Sy. Nostin porticum apud macellum hac deorsum? De. Quid ni noverim?
Sy. Praeterito hac recta platea sursum. ubi eo veneris,
Clivos deorsum vorsum est: hac te praecipitato: postea
Est ad hanc manum sacellum: ibi angiportum propter est.
De. Quodnam? Sy. Illi ubi etiam caprificus magna est. De. Novi. Sy. Hac pergito.
De. Id quidem angiportum non est pervium. Sy. Verum hercle: vah!
Censen hominem me esse? erravi: in porticum rursum redi:
Sane hac multo propius ibis et minor est erratio.

Scin Cratini huius ditis aedis? De. Scio. Sy. Vbi eas praeterieris,
Ad sinistram hac recta platea; ubi ad Dianae veneris,
Ito ad dextram: prius quam ad portam venias, apud ipsum lacum,
Est pistrilla et exadvorsum fabrica: ibi est. De. Quid ibi facit?
Sy. Lectulos in sole ilignis pedibus faciundos dedit,
De. Vbi potetis vos: bene sane. Sed cesso ad eum pergere.
Sy. I sane: ego te exercebo hodie, ut dignus es, silicernium!
Terence, *Adelphi* 573–587.

4. Tum vero Aenean aversum ut cedere Turnus
Credidit, atque animo spem turbidus hausit inanem:
"Quo fugis, Aenea? thalamos ne desere pactos;
"Hac dabitur dextra tellus quaesita per undas."
Talia vociferans sequitur, strictumque coruscat
Mucronem; nec ferre videt sua gaudia ventos.
Forte ratis celsi coniuncta crepidine saxi
Expositis stabat scalis, et ponte parato,
Qua rex Clusinis advectus Osinius oris.
Huc sese trepida Aeneae fugientis imago
Coniicit in latebras; nec Turnus segnior instat,
Exsuperatque moras, et pontes transilit altos.
Vergil, *Aeneid X*. 647–658.

5. THE BATTLE OF ACTIUM.

Advenit deinde maximi discriminis dies, quo Caesar Antoniusque productis classibus, pro salute alter, in ruinam alter terrarum orbis dimicavere. Ubi initum certamen est, omnia in altera parte fuere, dux, remiges, milites; in altera nihil praeter milites. Prima occupat fugam Cleopatra. Antonius fugientis reginae quam pugnantis militis comes esse maluit; et imperator, qui in desertores saevire debuerat, desertor sui exercitus factus est. Illis, etiam detracto capite, duravit constantia; et desperata victoria, in mortem dimicabatur. Caesar, quos ferro poterat interimere, verbis mulcere cupiens, clamitansque et ostendens fugisse Antonium, quaerebat pro quo et cum quo pugnarent? At illi, cum diu pro absente dimicassent duce, aegre summissis armis cessere victoriam.

6. Translate into Latin :

The Normans saw that the English defended themselves well, and were so strong in their position that they could do little against them. So they consulted together privily, and arranged to draw off, and pretend to flee, till the English should pursue and scatter themselves over the field; for they saw that if they could once get their enemies to break their ranks, they might be attacked and discomfited much more easily. As they had said, so they did. The Normans by little and little fled, the English following them. As the one fell back, the other pressed after; and when the Frenchmen retreated, the

English thought and cried out that they had fled, and would never return.

7. Give a clear and concise sketch of the career of Vespasian.

8. Write briefly on ANY THREE of the following:—*Cicero's character of the Stoic, the Aeneid as an Epic, Sallust as a Historian, native Roman comedy, Juvenal, the contrast in career and character between the writers of this period and their republican predecessors, an ancient ship.*

Queen's University Examinations: April, 1904.

Junior Greek.

Translate :

‘Τίπτε τόσον, Πολύφημ', ἀρημένος ὧδ' ἐβόησας
νύκτα δι' ἀμβροσίην, καὶ ἀΰπνους ἄμμε τίθησθα ;
ἢ μή τίς σευ μῆλα βροτῶν ἀέκοντος ἐλαύνει,
ἢ μή τίς σ' αὐτόν κτείνῃ δόλῳ ἠὲ βίηφιν ;'
Τοὺς δ' αὖτ' ἐξ ἄντρου προσέφη κρατερὸς Πολύφημος·
‘ὦ φίλοι, Οὖτίς με κτείνει δόλῳ, οὐδὲ βίηφιν.'
Οἱ δ' ἀπαμειβόμενοι ἔπεα πτερόεντ' ἀγόρευον·
‘εἰ μὲν δὴ μή τις σε βιάζεται οἶον ἐόντα
νοῦσόν γ' οὔ πως ἔστι Διὸς μεγάλου ἀλέασθαι,
ἀλλὰ σύ γ' εὔχεο πατρὶ Ποσειδάωνι ἄνακτι.'
Ὣς ἄρ' ἔφαν ἀπιόντες, ἐμὸν δ' ἐγέλασσε φίλον κῆρ,
ὡς ὄνομ' ἐξαπάτησεν ἐμὸν καὶ μῆτις ἀμύμων.

Odyssey ix. 403-414.

Translate :

Ὣς φάσαν· αὐτὰρ ἐγὼ μετεφώνεον ἀχνύμενος κῆρ·
ἄασάν μ' ἕταροί τε κακοὶ πρὸς τοῖσί τε ὕπνος
σχέτλιος. ἀλλ' ἀκέσασθε, φίλοι· δύναμις γὰρ ἐν ὑμῖν.'
Ὣς ἐφάμην μαλακοῖσι καθαπτόμενος ἐπέεσσιν·
οἱ δ' ἄνεῳ ἐγένοντο· πατὴρ δ' ἠμείβετο μύθῳ.
‘Ἔῤῥ' ἐκ νήσου θᾶσσον, ἐλέγχιστε ζωόντων·
οὐ γάρ μοι θέμις ἐστὶ κομιζέμεν οὐδ' ἀποπέμπειν
ἄνδρα τὸν ὅς κε θεοῖσιν ἀπέχθηται μακάρεσσιν.
ἔῤῥ' ἐπεὶ ἀθανάτοίσιν ἀπεχθόμενος τόδ' ἱκάνεις.'

Odyssey x. 67-75.

Translate :

'Επεὶ δὲ καιρὸς ἦν, ετάξαντο ὧδε. τὸ μὲν δεξιὸν κὲρας εἶχον οἱ Ἱππόγυποι καὶ ὁ βασιλεὺς τοὺς ἀρίστους περὶ αὐτὸν ἔχων· καὶ ἡμεῖς ἐν τούτοις ἦμεν· τὸ δ' εὐώνυμον οἱ

Λαχανόπτεροι· τὸ δὲ μέσον οἱ σύμμαχοι ὡς ἕκαστοι. τὸ δὲ πεζὸν ἦσαν μὲν ἀμφὶ τάς ἑξακισχιλίας μυριάδας. ἐτάχθησαν δὲ οὕτως. Ἀράχναι παρ' αὐτοῖς πολλοὶ καὶ μεγάλοι γίγνονται, πολὺ τῶν Κυκλάδων νήσων ἕκαστος μείζων. τούτοις προσέταξε διυφῆναι τὸν μεταξὺ τῆς Σελήνης καὶ τοῦ Ἑωσφόρου ἀέρα. ὡς δὲ τάχιστα ἐξειργάσαντο καὶ πεδίον ἐποίησαν, ἐπὶ τούτου παρέταξε τὸ πεζόν.

Lucian, *Vera Historia.*

Translate into Greek :

These Lacedaemonians had lived about four hundred years under one form of government when the Peloponnesian war began. Their education was only to practice feats of arms; wherein they so excelled, that a very few of them were thought equal to very great numbers of any other people. They were poor and cared not much for wealth; every one had an equal portion of the common field, which sufficed to maintain him in such manner as they used.

Sight translation :

καὶ μέντοι καὶ ὥραν μίαν ἴσασι τοῦ ἔτους· αἰεὶ γὰρ παρ' αὐτοῖς ἔαρ ἐστὶ καὶ εἷς ἄνεμος πνεῖ ὁ Ζέφυρος. ἡ δὲ χώρα πᾶσι μὲν ἄνθεσι πᾶσι δὲ φυτοῖς ἡμέροις τε καὶ σκιεροῖς τέθηλεν. αἱ μὲν γὰρ ἄμπελοι δωδεκάφοροί εἰσι καὶ κατὰ μῆνα ἕκαστον καρποφοροῦσι. τὰς δε ῥοιὰς καί τὰς μηλέας καὶ τὴν ἄλλην ὀπώραν ἔλεγον μὲν εἶναι τρισκαιδεκάφορον. ἑνὸς γὰρ μηνὸς, τοῦ παρ' αὐτοῖς Μινώου, δὶς καρποφορεῖν.

Queen's University Examinations: April, 1904.

Senior Greek.

1. Translate Odyssey VII. 244-266:

Ὠγυγίη τις νῆσος ἀπόπροθεν εἰν ἁλὶ κεῖται,
ἔνθα μὲν Ἄτλαντος θυγάτηρ, δολόεσσα Καλυψὼ
ναίει ἐυπλόκαμος, δεινὴ θεός· οὐδέ τις αὐτῇ
μίσγεται οὔτε θεῶν οὔτε θνητῶν ἀνθρώπων·
ἀλλ᾽ ἐμὲ τὸν δύστηνον ἐφέστιον ἤγαγε δαίμων
οἶον, ἐπεί μοι νῆα θοὴν ἀργῆτι κεραυνῷ
Ζεὺς ἔλσας ἐκέασσε μέσῳ ἐνὶ οἴνοπι πόντῳ.
ἔνθα μὲν ἑπτάετες μένον ἔμπεδον, εἵματα δ᾽ αἰεὶ
δάκρυσι δεύεσκον, τά μοι ἄμβροτα δῶκε Καλυψώ.
ἀλλ᾽ ὅτε δὴ ὄγδοατόν μοὶ ἐπιπλόμενον ἔτος ἦλθεν,
καὶ τότε δή μ᾽ ἐκέλευσεν ἐποτρύνουσα νέεσθαι
Ζηνὸς ὑπ᾽ ἀγγελίης, ἢ καὶ νόος ἐτράπετ᾽ αὐτῆς.
πέμπε δ᾽ ἐπὶ σχεδίης πολυδέσμου, πολλὰ δ᾽ ἔδωκεν,
σῖτον καὶ μέθυ ἡδύ, καὶ ἄμβροτα εἵματα ἕσσεν·
οὖρον δέ προέηκεκ ἀπήμονά τε λιαρόν τε.

Odyssey IX. 272-286.

ὣς ἐφάμην,, ὁ δέ μ᾽ αὐτίκ᾽ ἀμείβετο νηλέι θυμῷ·
,νήπιός εἰς, ὦ ξεῖν᾽, ἢ τηλόθεν εἰλήλουθας,
ὅς με θεοὺς κέλεαι ἢ δειδίμεν ἢ ἀλέασθαι·
οὐ γὰρ Κύκλωπες Διὸς αἰγιόχου ἀλέγουσιν
οὐδὲ θεῶν μακάρων, ἐπεὶ ἦ πολὺ φέρτεροί εἰμεν·
οὐδ᾽ ἂν ἐγὼ Διὸς ἔχθος, ἀλευάμενος πεφιδοίμην
οὔτε σεῦ οὔθ᾽ ἑτάρων, εἰ μὴ θυμός με κελεύοι.
ἀλλά μοι εἴφ᾽, ὅπῃ ἔσχες ἰὼν ἐυεργέα νῆα,
ἤ που ἐπ᾽ ἐσχατιῆς, ἦ καὶ σχεδὸν, ὄφρα δαείω.‘
ὣς φάτο πειράζων, ἐμὲ δ᾽ οὐ λάθεν εἰδότα πολλά.
ἀλλά μιν ἄψορρον προσέφην δολίοις ἐπέεσσιν·
,νέα μέν μοι κατέαξε Ποδειδάων ἐνοσίχθων

προς πέτρῃσι βαλὼν ὑμῆς ἐπὶ πείρασι γαίης,
ἄκρῃ προσπελάσας· ἄνεμος δ' ἐκ πόντου ἔνεικεν·
αὐτὰρ ἐγὼ σὺν τοῖσδε ὑπέκφυγον αἰπὺν ὄλεθρον.‘

2. Translate Thucydides IV. c. 28:

Ὁ δέ Νικίας τῶν τε Ἀθηναίων τι ὑποθορυβησάντων ἐς τὸν Κλέωνα, ὅ τι οὐ καὶ νῦν πλεῖ, εἰ ῥᾴδιόν γε αὐτῷ φαίνεται, καὶ ἅμα ὁρῶν αὐτὸν ἐπιτιμῶντα, ἐκέλευεν ἥν τινα βούλεται δύναμιν λαβόντα τὸ ἐπὶ σφᾶς εἶναι ἐπιχειρεῖν. ὁ δὲ τὸ μὲν πρῶτον οἰόμενος αὐτὸν λόγῳ μόνον ἀφιέναι ἑτοῖμος ἦν, γνοὺς δὲ τῷ ὄντι παραδωσείοντα ἀνεχώρει καὶ οὐκ ἔφη αὐτὸς ἀλλ' ἐκεῖνον στρατηγεῖν, δεδιὼς ἤδη καὶ οὐκ ἂν οἰόμενός οἱ αὐτὸν τολμῆσαι ὑποχωρῆσαι· αὖθις δὲ ὁ Νικίας ἐκέλευε καὶ ἐξίστατο τῆς ἐπὶ Πύλῳ ἀρχῆς καὶ μάρτυρας τοὺς Ἀθηναίους ἐποιεῖτο. οἱ δέ, οἷον ὄχλος φιλεῖ ποιεῖν, ὅσῳ μᾶλλον ὁ Κλέων ὑπέφευγε τὸν πλοῦν καὶ ἐξανεχώρει τὰ εἰρημένα, τόσῳ ἐπεκελεύοντο τῷ Νικίᾳ παραδιδόναι τήν ἀρχὴν καὶ ἐκείνῳ ἐπεβόων πλεῖν. ὥστε οὐκ ἔχων ὅπως τῶν εἰρημένων ἔτι ἐξαπαλλαγῇ, ὑφίσταται τὸν πλοῦν, καὶ παρελθὼν οὔτε φοβεῖσθαι ἔφη Δακεδαιμονίους πλεύσεσθαί τε λαβὼν ἐκ μὲν τῆς πόλεως οὐδένα, Δημνίους δὲ καὶ Ἰμβρίους τοὺς παρόντας καὶ πελταστὰς οἳ ἦσαν ἔκ τε Αἴνου βεβοηθηκότες καὶ ἄλλοθεν τοξότας τετρακοσίους. ταῦτα δὲ ἔχων ἔφη πρὸς τοῖς ἐν Πύλῳ στρατιώταις ἐντὸς ἡμερῶν εἴκοσιν ἢ ἄξειν Λακεδαιμονίους ζῶντας ἢ αὐτοῦ ἀποκτενεῖν.

3. Parse *εἰλήλουθας, κέλεαι, ἀλέασθαι, πεφιδοίμην.* Remark on syntax of *ὅπως ἐξαπαλλαγῇ* and *οἰόμενος ἂν τολμῆσαι.*

4. What is the character of Ulysses in Books VII.–X. of the Odyssey? *or* sketch the plot of the poem.

5. Describe the affair of Pylos. Does it conform to the strategy prescribed by Pericles?

6. Translate Galatians Ch. V., vv. 2-6:

ἴδε ἐγὼ Παῦλος λέγω ὑμῖν, ὅτι ἐὰν περιτέμνησθε, Χριστὸς ὑμᾶς οὐδὲν ὠφελήσει. μαρτύρομαι δὲ πάλιν παντὶ ἀνθρώπῳ περιτεμνομένῳ, ὅτι ὀφειλέτης ἐστὶν ὅλον τὸν νόμον ποιῆσαι. κατηργήθητε ἀπὸ τοῦ Χριστοῦ οἵτινες ἐν νόμῳ δικαιοῦσθε, τῆς χάριτος ἐξεπέσατε. ἡμεῖς γὰρ πνεύματι ἐκ πίστεως ἐλπίδα δικαιοσύνης ἀπεκδεχόμεθα ἐν γὰρ Χριστῷ Ἰησοῦ οὔτε περιτομή τι ἰσχύει οὔτε ἀκροβυστία, ἀλλὰ πίστις δι᾽ ἀγάπης ἐνεργουμένη.

7. What is the error against which these words are directed?

8. Render in Greek:

In their desire to become the leading state in Greece, the Thebans resolved to send deputies to the Persian King: and so Pelopidas set out for Susa. On his arrival he was able to say that the Thebans alone had fought on the Persian side at Plataea and that they had never taken the field against the King. Accordingly he was asked what he wanted, to which he replied that the Messene should be free from Spartan control, and if the Spartans disobeyed the command he thought that the King should send an army against Sparta. And to this the King gave his assent. Whereupon a Spartan who had followed Pelopidas exclaimed: "Upon my word, my countrymen must seek another friend." The only reply of the Persian was to add to the agreement a clause recommending the Spartans, if they knew of any terms that would be more just, to come and teach the King.

Queen's University Examinations: April, 1904.

Junior German.

A.

1. Translate at sight ONE of the following passages :

(*a*) Als der kleine Padre Curato das nächste Mal aus dem Beichtstul kam, in dem Laurella lange gekniet hatte, lächelte er still in sich hinein. "Wer hätte gedacht," sagt er bei sich selbst, "dasz Gott sich so schnell dieses wunderlichen Herzens erbarmen würde? Und ich machte mir noch Vorwürfe, dasz ich den Dämon Eigensinn nicht härter bedrängt hatte. Aber unsere Augen sind kurzsichtig für die Wege des Himmels. Nun so segne sie der Herr und lasse mich's erlleben, dasz mich Laurellas ältester Bube einmal an seines Vaters statt über Meer fährt! Ei ei ei! l'Arrabbiata!"

(*b*) So sasz sie einmal in dunkler Racht auf ihrem Bettrande, noch angekleidet, und wusszte nicht, dasz drauszen einer ums Haus schlich und jetzt zu ihrem Fensterchen hereinlugte. Sie wuszte auch nicht, dasz sie schön sei, mit den weitaufgerissenen Augen vor sich hinstarrend, die Hände auf den Knieen gefaltet. Da klopfte es ans Fenster, und mit einem verhaltenen Aufschrei sprang sie auf und drehte den Kopf, das Dunkel mit den Augen durchforschend. Da wàr es ihr, als sähe sie Tannas, und im nächsten Augenblick hörte sie sich leife rufen.

2. Translate into English and indicate the place of the passage in the story :

(*a*) Da ist nichts zu schämen, sagte sie. Liebe macht den klügsten zum Narren, heisst's im Sprüchwort. Sie haben mir auch gar nichts zu Leide gethan; denn obwohl ich Sie recht gern gehabt hab', ich sterb' eben nicht daran, dass ich Sie nicht krieg? Ich hab' schon einmal einen Schatz gehabt, und wie der eine andere genommen hat, nur ums Geld, hab' ich gemeint, es bringt mich um, und hernach ist mir das Leben doch wieder lieb geworden.

(*a*) Give Pres. Indicative in full and principal parts of *haben, gethan, sterb', genommen heisst, bringt.....um.*

(*b*) Turn into German :

He made a fool of her.—She told me she did not like me.—No one ever dies of love.—Life became sweet to her after that.

(*c*) Criticise the style of the above passage.

3. Give expressions, (*a*) in English, (*b*) in German, equivalent to:

Wochen waren ins Land gegangen.—Jemand hat es ihnen angethan.—Mein Ahnherr ging in sich.—Seit dieser Zeit ging ihm Kein Schuss fehl.—Eine Magd um die Andere kündigte der Wirtin den Dienst.—Das versteht sich.—Dann hatte er das Nachsehen.—Sie bleiben niemals bei der Stange.—Einer von euch muss unter die Haube.—Er ist in sich gegangen.—Mach 'keine Possen.—Da haben wir die Bescherung,—Auf die Kometen war sie schlecht zu sprechen.

4. Antwort wird ersucht in deutscher Sprache:

(*a*) Warum wurde Raoul zum Geistlichen? (*b*) Warum wurde Berthald auf Editha eifersüchtig? (*c*) Wozu trieb sie diese Eifersucht? (*d*) Wie büsste sie ihr Verbrechen? (*e*) Was war Raoul's Schuld und wie büsste er sie?

5. Translate into German:

(*a*) People accused her of that.—She looks like a black cat.—He knew what to advise for everything.—He paid no attention to the creature.—He has shown me a good deal of kindness.—Strike the iron while it is hot.—He is angry at me, I know that.—William is to blame for it.—I cannot help thinking of it.—Henry insisted that she should say, "Thank goodness, the table is set."—She was obstinate in her refusal.—As far as I am concerned, they may know what has happened.—She thought of killing herself.—The stranger stepped into the room, as if he were quite at home.

(*b*) Carmen Sylva, who wrote "Ein Gebet," is a woman and a queen. Her name is Elizabeth and she is Queen of Roumania. She was a German princess. She was born on the twenty-ninth of December, eighteen hundred and forty-three, in Newied on the Rhine. When she was quite young she played with the village children. As a mere child she was fond of poetry. She began to write stories when she was only nine years old. When she was sixteen years old she studied hard. She was a pretty girl and had blond hair. After becoming older she travelled, and, when she was home, she taught the poor. She was actually going to become a teacher, but the Prince of Roumania, who had fallen in love with her, asked for her hand and she became a queen instead. "Ein Gebet" is one of her best stories, and shows that sin must be atoned for in some way or other.

6. Reproduce briefly in German "Ein Kobold im Keller."

B.

1. State the principal stages in the development of the action of "Vetter Gabriel."

2. "Die Aufgabe des Dichters besteht nicht darin, wirklich Geschehenes darzustellen, sondern solches was wohl geschehen könnte und was möglich ist nach den Gesetzen der Wahrscheinlichkeit und der Nothwendigkeit."

Discuss "Vetter Gabriel" from the above point of view.

3. What is the unity of action in "Eigensinn"? What is the moral?

Queen's University Examinations: April, 1904.

PASS.

German—Dictation.

Vor etwa zweihundert Jahren lebte in Berlin ein Apothekergehilfe Namens Bötticher. Dieser war ein fleissiger junger Mann und arbeitete oft bis in die späte Nacht an seinem Herde, wo er schmelzend und kochend allerlei Versuche machte. Wie viele andere Leute zu jener Zeit, so hatte auch er die Idee, dass es möglich sei, aus ganz gewöhnlichen Metallen Gold zu machen. Wie ein wenig Hefe den süssen Gerstensaft in berauschendes Bier umwandeln kann, so glaubte man allgemein, sei es möglich, Blei, Zink, Kupfer u. s. w. in Gold zu verwandeln, wenn man nur eine Flüssigkeit erfinden könnte, welche in ihrer Wirkung der Hefe ähnlich wäre. Von dieser eifrig gesuchten Substanz erwartete man zugleich, dass sie die unschätsbare Kraft besitze, jede Krankheit zu heilen und alle Menschen glücklich zu machen.

Es war deshalb ganz natürlich, dass Bötticher als Apotheker sich viel Mühe gab, das grosse Problem zu lösen, und plötzlich hiess es in der Nachbarschaft, er habe die Wundersubstanz wirklich erfunden. Dieses Gerücht verbreitete sich schnell durch die ganze Stadt und erreichte auch den Hof. Der König brauchte damals gerade viel Geld, denn er liess grosse schöne Gebäude errichten; was wäre ihm also erwünschter gewesen, als einen Menschen in seine Gewalt zu bekommen, der ihm auf Kommando Gold machen könnte.

Queen's University Examinations: March, 1904.

Senior German.

A.

1. Translate (*a*) OR (*b*) and (*c*), and refer (*c*) to its context:

(*a*) "Jörn Uhl! Wer ist in der Zeit dein Bildner gewesen, da der Menschengeist weich wie Wachs ist, das auf Eindruck wartet? Wer war dein Führer in der Zeit, wo die Eltern uns nicht mehr halten können und andre Leute nicht nach den Zügeln greifen, die hinter uns dreinschleifen, wo wir die Strasze hinunterrasen, die auf den Marktplatz des Lebens führt, auf jenen Platz, wo das Schicksal so ernst fragt: Was bist du wert? Denn so steht es ja. Zu allen Lebenszeiten haben wir bestellte Ratgeber und Führer, Eltern, Schule und Gesetze, Erfahrungen, Frauen, Sorge und Not; aber in den Jahren, wo ein Frühlingsturm nach dem andern den jungen, überschlanken Bäumen über die Köpfe fährt, da sind wir ungestützt und unberaten. Hei, wie knackte es! Wie stoben die Blätter! Wir haben Narben davon an der Seele und kahle Stellen in Gezweig."

(*b*) Es ist in hohem Grade interessant, zu verfolgen, wei selbst Haeckels extremer Standpunkt in der Frage nach der Unsterblichkeit der menschlishen Seele mit einigen Umwegen auf eine Goethe-Linie zurückführt. Der Umweg berührt dabei gleichzeitig wieder eine der stärksten positiven Leistungen Haeckels für die Kläriung des Katurbildes. In der Einleitung zu Goethes morphologischen Heften findet sich jene wunderbare Stelle, wo Goethe sagt, jedes Lebendige sei kein eiuzelnes, sondern eine Mehrheit; "selbst insofern es uns als Individnum erscheint, bleibt es doch eine Bersammlung von lebendigen, selbständigen Wesen."

(*c*) Dergleichen Krankheiten sind oft nicht blos ein Versuch der phosischen Natur, die schädlichen Stoffe von sich anszustoszen, sondern nicht minder der psychischen, die verloren gegangene Harmonie wieber zu erhalten. Wer kann sagen, ob Ihr Vater, wenn er wieder zum Leben erwacht, nicht auf Alles, was ihn in dieser letzten Zeit gequält, zurücksieht, wie auf einen bösen Traum? Der Tod ist im organischen Gebiet immer eine Consequenz von absolnter Folgerichtigkeit; aber auf dem seelischen Gebiet ist er oft ein willkürlicher Strich gleichsam durch die unvollendete Rechnung des Lebens, ein plumpes Quiproquo, eine grausame Unterschlagung, eine perfide Volte des Zufalls, der das Oberste zu unterst kehrt. Und nun kommen Sie, liebes Fräulein; ich hoffe, wie gesagt, das

Beste, aber in solchen Fällen thut man wohl, auf das Schlimmste gefaszt zu sein.

2. Es wird ersucht, folgende Wendungen auf Deutsch zu erklären :

Dann soll er sich den Mund wischen.—Wie hoch sie dich taxiren. —Aber Hauke machte keine Anstalt.—Und als ein paar monde mehr ins Jahr gingen.—Da es diesem zum Verdruss geschlagen war.—Es hat nichts auf sich.—Der Herr Kurt müsse sich wohl vergriffen haben.—Sie stellte den Leuchter in die Mauerblende . . ., die Decke zu lüften.—Sobald sie über unser Weichbild hinaus ist.—Ihr stellt euch gar zu schlimm an.—Er kann jetzt seiner Leidenschaft, Bücher zu sammeln, recht nachhängen.—Sie hatte sich bis dahin die Verständniss der Musik abgesprochen.—Ich habe viel an Ihnen gut zu machen.—Er machte sich aus dem Staub.—Es ahnte mir nichts Gutes.

B.

1. Man übersetze ins Deutsche :

March 15, 1883.

(*a*) Our breakfast at the English Embassy was most interesting. I began by refusing on account of my mourning, but Lord Lyons wrote me a nice note saying that there would be no one but the Léon Says and Mr. and Mrs. Gladstone, so I accepted. I was very anxious to see Mr. Gladstone.

We had a pretty little breakfast upstairs in the dining-room, and the talk at table was most interesting. I thought Mrs. Gladstone looked older than her husband. He of course did most of the talking. He has a fine voice, bright, keen, dark eyes, holds himself very erect, and apparently knows everything about everything. When the men were smoking after breakfast I had quite a talk with Mrs. Gladstone, who told me about the murder of Lord Frederick Cavendish. She said her husband heard it at a big London party, and had to go and tell Lady Frederick. Mr. Gladstone was more upset by the whole thing (and the having to tell the unfortunate wife) than she had ever seen him. There was good cause, for even here in Paris, where *outside* questions don't trouble them very much, there was great excitement when the news came.

I had a nice talk with Plunkett, who congratulated me on W.'s* appointment as Ambassador to Vienna. I told him there was no truth in the report (they had offered it to W., but he wouldn't hear of it), and I think he is quite right. He has no particular *attaches* at Vienna. He knows German well, but doesn't speak it absolutely perfectly, and hasn't really the social talents that one needs in Vienna. They ought to send a dashing general, or a courtier, not a serious savant.

(*b*) The old man is planning something against Douglas.—He is

32 years old; he is past the age when he might have sown his wild oats.—I thank goodness that I have not allowed my head to be turned by your foolish ideas.—A man who is conscious of his worth should be able to hold his own everywhere.—In Rome you must do as the Romans do.—Excuse me, but I played hearts.—He did it of his own accord.—He was beside himself with joy.

2. Man schreibe in deutscher Sprache den Inhalt der "Hochzeitsreise" nieder.

C.

1. Niemand ist hier schuldig als ich; ich bin die wahre Urheberin seines jammervollen Endes, ... Niemand soll büssen als ich.

Explain with reference to the work.

2. Ein störendes Wort kam in Umlauf.

Was war das "Wort," und was war die Ursache und die Wirkung davon. (Antwort auf Deutsch.)

3. Aber die Sorge lächelte—und wer sie lächeln sah, der musste weinen—und sie sagte: "Er muss sich selbst befreien . . . . Er muss mir alles opfern was er lieb hat."

What is meant by the first condition? Show how both are fulfilled.

4. Give an account of the life and works of Heyse, and estimate his place in German literature.

5. Quote any ballad of Heine or Chamisso.

Queen's University Examinations: April, 1904.

Senior German.

Dictation.

In der tiefen Fensternische des lichterhellen Saals brannte nur eine einzelne Kerze auf silberhellem Leuchter, den eine geflügelte Figur mit beiden Armen emporhielt. Der bescheidene Glanz wurde noch gedämpft durch schattige Gewächse mit breiten Blättern und den letzten Blüten des Jahres, und eine schlanke Palme überwölbte zierlich mit ihren leichten Zweigen den Eingang in die dämmrige Laube. Zwei Sessel standen darin traulich einander gegenüber. Aber der eine war leer. In dem andern ruhte eine schlanke Frauengestalt, das Haupt auf die Hand gestützt, die Augen geschlossen. Wer sie im Verdacht hatte, dass sie sich aus der muntern Gesellschaft in dies grüne Versteck zurüuckgezogen habe, um nur desto mehr bemerkt und aufgesucht zu werden, that ihr Unrecht. Sie dachte durchaus nicht daran, wie zart das Helldunkel der Palme über ihre schöne Stirne fiel, wie weich und mondscheinhaft der Schein der Kerze in den Ringen ihres schwarzen Haares spielte.

Queen's University Examinations: April, 1904.

Junior French.

A.

1. Translate into English, referring to the context:

(*a*) Devrons-nous donc monter la garde à la belle étoile, sans rien à mettre sons la dent? Il est peu probable qu'on nous envoie à souper, qu'en pensez-vous? Moi, quand j'ai la ventre vide cela m'ôte les moyens. Après tout ce poulet avait pour avenir d'être mis à la broche.

or

Je ne sais pas l'orthographe! Les participes surtout, on ne sait par quel bout les prendre....tantôt ils s'accordent, tantôt ils ne s'accordent pas....quels fichus caractéres! Quand je suis embarrassé, je fais un pâte, mais ce n'est pas de l'orthographe! Lorsque je parle, ça ne se voit pas.

(*b*) C'est vrai, mon oncle; s'il ne s'agissait que de ce qui regarde l'ambition de M. Maurice, je me dirais: Il n'y a pas de mal à ce qu'un jeune artiste vise d'abord plus haut q'il ne peut atteindre, vu que, plus tard, il ne descendra jamais aussi bas que s'il ne se fût proposé que de se tenir terre à terre. Ce qui m'inquiète et me fait grande pitié, c'est quand je vois Mme. Catharine, qui a été si riche, diminuer tous les jours sa dépense......Elle a tout vendu pour faire de son fils un homme célèbre; cela n'aboutit pas selon son espérance, et la misère est proche. Je voudrais vous intéresser à nos chers voisins.

(*c*) Madame Ratinois—Faites-nous le dîner six heures précises.
Le Maître d'Hotel—Madame peut être tranquille. (*Fausse sortie.*)
Ratinois, *le rappelant*—Ah! Monsieur le maître d'hotel.
Le Maître d'Hotel—Monsieur.
Ratinois—Il y a un plat auquel je tiens essentiellement mais je ne sais pas son nom. On le sert tout à la fin....c'est de l'eau chaude avec de la menthe qu'on boit.
Le Maître d'Hôtel—Ce sont des bols.
Frédéric—Ça ne se boit pas!
Ratinois, *étonné*—Tiens!....moi, j'ai bu!
Le Maître dHôtel, *sortant, à part*—En voilà des épiciers? (*Il disparaît.*)

2. Give some characteristics of La Fontaine as a fabulist.

3. Give an account of the leading characters of "Le Million du Père Raclot."

4. Sketch very briefly Malingear's character and trace his progress in the art of deception.

B.

1. Translate into French :

"What shall I do with this money, now," says I, "for I have nowhere to put it?" "Why, have you no pocket?" says he. "Yes," says I, "but they are full of holes." Nothing could be more perplexing than this money was to me all that night. I carried it in my hand a good while; at last I sat down and pulled off one of my shoes, and put the four guineas into that; but after I had gone a while my shoe hurt me so I could not go, so I had to sit down again and take it out of my shoe and carry it in my hand. Well, I carried it home with me to my lodging, and when I went to go to sleep I knew not what to do with it, but lay with it in my hand and my hand in my bosom. But then sleep went from my eyes.

2. Translate into English :

Avant une heure, même les jours les plus ardents, je partais par le grand soleil avec le fidèle Achate, pressant le pas, dans la crainte que quelqu'un ne vînt s'emparer de moi avant que j'eusse pu m'esquiver; mais quand un fois j'avais pu doubler un certain coin, avec quel battement de cœur, avec quel pétillement de joie je commençais à respirer en me sentant libre, en me disant: me voilà maître de moi pour le reste de ce jour! J'allais alors d'un pas plus tranquille chercher quelque lieu sauvage dans la forêt, quèque lieu désert oû rien n'annonçât la servitude et la domination, quelque asile où je pusse croire avoir pénétré le premier, et où nul tiers importun ne vînt s'interposer entre la nature et moi.

C.

1. Give in French a résumé of "Pousette" or "La Grammaire."

2. Give the English for :

(*a*) Voilà ce que c'est que de se mettre en personne de qualité.

(*b*) Dis un peu U, pour faire tout autant que lui.

(*c*) Il faut trancher dans le vif.

(*d*) Je me porte comme le Pont-Neuf.

(*e*) Ceux qu'on appelaient les gros bonnets de la curiosité faisaient seuls acte de présence.

(*f*) Il donna la perle au beau premier lapidaire.
(*g*) Qui terre a, guerre a.
(*h*) N'a-t-il point assez léchè l'ours ?

3. Give the French for :

(*a*) I should be delighted to help you.
(*b*) This ballad is all the rage.
(*c*) We do not stand on ceremony with you.
(*d*) What difference does that make ?
(*e*) I have hardly the necessities of life.

Queen's University Examinations: April, 1904.

Junior French.

Dictation.

Ce petit livre n'a pas la prétention de révéler une France inédite. Il voudrait simplement présenter au lecteur un portrait exact et impartial de notre patrie.

On y trouvera résumés en quelques chapitres l'aspect général, l'histoire, la statistique économique, l'organisation politique et administrative, la physionomie intellectuelle et le caractère d'un pays dont on parle beaucoup et que les Français eux-mêmes connaissent souvent assez mal.

Il s'adresse aux enfants de nos écoles des divers ordres, aux jeunes gens, à tous ceux qui ont quelque intérêt à revoir de temps à temps, à reviser, à grouper leurs connaissances sur un sujet déterminé, et il n'en est pas, pour des Français, de plus important que celui-ci.

Il est surtout écrit à l'usage des étrangers sincèrement désireux de s'instruire et à qui on peut affirmer qu'il ne contient aucun fait sciemment inexact, que l'auteur, à défaut d'autre mérite, s'est toujours efforcé d'être véridique. FONCIN.

Queen's University Examinations: April, 1904.

Senior French.

A.

(1) Give in French a short résumé of the fables with the moral "Tout flatteur vit aux dépens de celui qui l'écoute." "La raison du plus fort est toujours la meilleure." "Les plus à craindre sont souvent les plus petits." "Mal prend aux volereaux de faire les voleurs."

(2) State briefly the literary importance of "Le Siècle de Louis XIV."

(3) Give a short account of "La Chanson de Roland." Voltaire. V. Hugo.

B.

(1) Translate into French:

I cannot tell you, my daughter, how much I pity you, how much I praise you, and how much I admire you; this is my discourse, divided into three parts: I pity you in that you are subject to melancholy thoughts which, without doubt, do you much harm; I praise you that you can master them when it is necessary; I admire you because you force yourself to appear what you are not. It is true you have this in common with many, but remember that whatever we do or say, it is never too late to mend. Hoping this bit of advice will be welcome, and with best wishes, I remain yours very faithfully.

(2) Give the French for:

(*a*) She is worth her weight in gold.
(*b*) The die is cast.
(*c*) Tomorrow is Tuesday.
(*d*) He is in the way.
(*e*) Never mind.
(*f*) Three miles across country.
(*g*) He began to weep in real earnest.
(*h*) He almost killed himself.

(3) Translate into English:

(*a*) C'estun jeune homme qui m'a fait danser.

(b) Ça ne sait pas vivre.
(c) Ils se montent la tête.
(d) Je croyais qu'il reprendrait la corde.
(e) Aimer à tont et à travers.
(f) Il n'en peut mais.
(g) Faites-en les feux.
(h) A qui mieux mieux.

(4) Explain the construction with *faire* and *laisser* followed by an infinitive.

C.

Translate into English, referring to the context:

(1) Plusieurs se sont trouvés qui, d'écharpe changeans,
Aux dangers, ainsi qu'elle, ont souvent fait la figue.
Le sage dit, selon les gens:
Vive le roi! vive la Ligue!

(2) "Monsieur le Préfet, je crois devoir prévenir l'autorité que deux insensés ont l'intention de croiser le fer demain, à midi moins un quart....." (*Parlé.*) Je mets moins un quart afin qu'on soit exact. Il suffit quelquefois d'un quart d'heure!....(*Reprenant sa lecture.*) "A midi moins un quart....dans les bois de la Malmaison. Le rendez-vous est à la porte du garde....Il appartient à votre haute administration de veiller sur la vie des citoyens. Un des combattants est un ancien commerçant, père de famille, dévoué à nos institutions et jouissant d'une bonne notoriété dans sons quartier. Veuillez agréer, Monsieur le Préfet, etc.

(3) Je voudrais vous répéter textuellement tout ce que je le contraignis d'entendre, mais les mots me manquent aujourd'hui que je suis de sang-froid. J'en forgeais alors de toute sorte, qui n'étaient pas dans le dictionnaire et que l'on comprenait pourtant, car l'auditoire de forçats hurlait sous mes paroles comme une meute de chiens sous le fouet des piqueurs. Mais j'avais beau surveiller le visage de vieux pallicare, épier tous les muscles de sa face et fouiller avidement dans les moindres rides de son front, je n'y surpris pas la trace d'une émotion.

(4) Gaston.—Il n'y a pas à dire, elle est plus jolie que madame de Montjay....C'est un peu fort! Ne voilà-t-il pas que je suis en train de devenir amoureux de ma femme!....L'amour est comme la fortune: pendant que nous le cherchons bien loin, il nous attend chez nous, les pieds sur les chenets. (*Entre Poirier.*) Eh bien! cher beau-père, comment gouvernez-vous ce petit désespoir? Êtes-vous toujours furieux contre votre panier percé de gendre? Avez-vous pris votre parti?

Poirier.—Non, monsieur; mais j'ai pris un parti!

(5) Et je ne vous dis pas seulement bonjour, fit-il en se penchant vers elle....Elle recula imperceptiblement, il n'osa avancer, il n'osa même pas lui prendre le main. Elle se baissa pour reprendre la cane de cuivre, il s'en empara et l'emporta résolûment dans la salle basse. Elle le suivit sans mot dire L'instant d'après, quand il eut terminé les compliments de bienvenue, il se retourna pour voir ce qu'était devenue Simplicie. Elle avait disparu, et la cane avec elle. Grommelant quelque chose entre ses dents, il s'élança dans la cour; mais la jeune fille était déjà loin, il ne put l'apercevoir et rentra un peu confus.

Queen's University Examinations: April, 1904.

Senior French.

Dictation.

Il ne faut pas qu'on s'attende à trouver ici, plus que dans le tableau des siècles précédents, les détails immenses des guerres, des attaques de villes prises et reprises par les armes, données et rendues par des traités. Mille circonstances intéressantes pour les contemporains se perdent aux yeux de la postérité, et disparaissent pour ne laisser voir que les grands événements qui ont fixé la destinée des empires. Tout ce qui s'est fait ne mérite pas d'être écrit. On ne s'attachera, dans cette histoire, qu'à ce qui mérite l'attention de tous les temps, à ce qui peut peindre le génie et les mœurs des hommes, à ce qui peut servir d'instruction, et conseiller l'amour de la vertu, des arts, et de la patrie.

On a déjà vu ce qu'étaient et la France et les autres États de l'Europe avant la naissance de Louis XIV; on décrira ici les grands événements politiques et militaires de son règne. Le gouvernement intérieur du royaume, objet plus important pour les peuples, sera traité à part. La vie privée de Louis XIV, les particularitiés de sa cour et de son règne, tiendront une grande place. VOLTAIRE.

Queen's University Examinations: April, 1904.

Junior English

I.

1. I have *possessed* your grace of what I purpose
And by *our holy Sabbath* have I sworn
To have the due and forfeit of my bond:
If you *deny* it, let the danger light
Upon your *charter* and your city's *freedom.*
You'll ask me, why I rather choose to have
A weight of carrion flesh than to receive
Three thousand ducats: I'll not answer that:
But say it is my *humor*: is it answered?
What if my house be troubled with a rat,
And I be pleased to give ten thousand ducats
To have it *baned?* What, are you answered yet?

(*a*) Explain the circumstances under which this speech is made, mentioning the scene and auditors.

(*b*) Explain precisely the meaning of the words italicized. Name the peculiarity in the form of the construction or argument in lines 10, 11, 12.

(*c*) Give a metrical analysis of the last five lines, marking accents and pauses.

2. "A strenuous, austere, Puritanical temperament unhappily placed amidst a crew of frivolous and light-minded Italians." Quote passages which might seem to support this view of Shylock. Criticize it, supporting your remarks with reference to the events of the play and as far as you can by quotations.

3. State where the following passages occur and explain what they mean:

(*a*) In terms of choice I am not solely led
By nice direction of a maiden's eyes.

(*b*) He is a proper man's picture. But, alas! who can converse with a dumb show?

(*c*) and tell quaint lies
How honourable ladies sought my love
Which I denying they fell sick and died.

(*d*) in such a night
Troilus, methinks, mounted the Trojan walls.

(*e*) but, like the martlet
Builds in the weather on the outward wall,
Even in the force and road of casualty.

II.

4. (*a*) Explain what is meant by (1) Propriety, (2) Precision, (3) Force, as qualities of style.

(*b*) Examine and improve the following sentences as regards propriety of style:

By his exquisite draughtmanship Mr. H. became predominant amonst the artists of his age.

After dinner we sat by the camp-fire and sang songs. Miss F's rendition of the "Maple Leaf" was very fine.

Mr. M. has become imbued with the conviction that radical reforms were necessary in our system.

(*c*) Increase the *force* or *precision* of the diction in the following:

He took his sword and went in great haste to the help of his companion.

He had been walking in the woods all day without any particular aim.

5. (*a*) Explain the general character of the Loose Style and the special form it sometimes takes in Carlyle.

(*b*) Show how the following sentences illustrate qualities of *diction* in the prose of Bacon, Addison, Carlyle:

(*a*) As soon as the sermon is finished, nobody presumes to stir till Sir Roger is gone out of the church. The Knight walks down from his seat in the chancel between a double row of his tenants that stand bowing to him on each side.

(*b*) It will be acknowledged even by those that practise it not, that clear and round dealing is the honour of man's nature; and that mixture of falsehood is like alloy in coin of gold and silver, which may make the metal work the better, but it embaseth it.

(*c*) Ever wilder swells the tide of men, their infinite hum waxing ever louder, into imprecations, perhaps into crackle of stray musketry—which latter, on walls nine feet thick, cannot do execution.

(*d*) This same truth is a naked and open day-light that doth not show the masks and mummeries and triumphs of the world, half so stately and daintily as candle-lights.

6. What are the intellectual characteristics of Addison as shown in his prose writings? Compare his style with Macaulay's.

III.

7. Logic, eloqueuce, art, task, all those things which are generally considered as making a book valuable were utterly wanting to him. He had indeed a quiet observation and a retentive memory, These qualities if he had been a man of sense and virtue, would scarcely of themselves have sufficed to make him conspicuous; but as he was a dunce, a parasite, and a coxcomb they have made him unmortal.

Do the powers of observation and memory which Macaulay here concedes to Boswell account sufficiently for the merits of Boswell's book? What others would you mention? What is characteristic of Macaulay in this judgment?

8. Explain the following allusions and phrases in *The Palace of Art:* "Mythic Uther's deeply-wounded son," "The Ausonian King," "The Ionian father of the rest," "Large-brow'd Verulam," "Wrote Mene, Mene."

(*b*) By the margin, willow-veil'd,
Slide the heavy barges trail'd
By slow horses; and unhail'd
The shallop flitteth silken-sail'd
Skimming down to Camelot.

From what poem is this taken? Point out what is pleasing in that diction.

9. (*a*) Quote as much as you can of Chaucer's description of the *Knight*. Explain carefully the meaning and significance of the following from *The Prologue:*

(1) And Frensh she spak ful faire and fetisly,
After the scole of Stratford atte Bowe.

(2) But al be that he was a philosophre,
Yet hadde he but litel gold in cofre.

(3) And that was seyd in forme and reverence
And short and quick, and ful of hy sentence.

(*b*) Point out what was peculiar to the student of the middle ages as compared with the student of to-day.

Queen's University Examinations: April, 1904.

Senior English.

I.

1. No more thy glassy brook reflects the day,
But, choaked with sedges, works its weedy way;
Along thy glades, a solitary guest,
The hollow sounding bittern guards its nest;
Amidst thy desert walks the lapwing flies,
And tires their echoes with unvaried cries;
Sunk are thy bowers in shapeless ruin all,
And the long grass o'ertops the mouldering wall;
And trembling, shrinking from the spoiler's hand,
Far, far away thy children leave the land.

(*a*) From what poem is this passage taken? Characterize the range and qualities of the diction.

(*b*) Scan the whole passage, marking accents, pauses, obtrusive quantity. Characterize the quality of the rhythm, indicating its range, merits, limitations, general effect, &c.

(*c*) Give a brief sketch of the history of the rhymed couplet from the time of its introduction into English poetry.

2. Quote characteristic epigrams from Dryden, Pope, Goldsmith and Johnson, and distinguish the moral quality in each.

3. Quote two or three stanzas from *Ruth.* In what respects may it be considered an imitation of ancient ballad poetry and in what respects does it go beyond the range of ballad poetry?

II.

4. *There's the respect*
That makes calamity of so long life,
For who would bear the whips and scorns of time,
The oppressor's wrong, the *proud man's contumely*,
The pangs of despised love, the law's delay,

The insolence of office, and the spurns
That patient merit of the unworthy takes,
When he himself might his *quietus make*
With a *bare bodkin*? Who would *fardels* bear,
To grunt and sweat under a weary life;
But that the dread of something after death
The undiscovered country, from whose *bourn*
No traveller returns,—puzzles the will;
And makes us rather bear those ills we have,
Than fly to others that we know not of?

(*a*) Explain precisely the words and phrases italicized.

(*b*) Illustrate from this passage the range of Shakespeare's vocabulary.

(*c*) Give a brief account of the development of blank verse in English poetry and characterize the rhythmical qualities of the above passage.

5. (*a*) Quote as much as you can of Hamlet's speech to the players.

(*b*) Full thirty times hath Phoebus' cart gone round
Neptune's salt wash, and Tellus' orbed ground;
And thirty dozen moons, with borrowed sheen
About the world have times twelve thirties been;
Since love our hearts and Hymen did our hands,
Unite commutual in most sacred bands.

Where does this passage occur? What style does Shakespeare mean it to represent?

(*c*) Give a brief estimate of Polonius.

III.

6. Explain the meaning of the following sentences, so as to make clear the critical power implied in them:

Now poetry is nothing less than the most perfect speech of man, that in which he comes nearest to being able to utter the truth.

Wordsworth's poetry when he is at his best is inevitable, as inevitable as nature herself.

Wordsworth owed much to Burns.

7. Treat briefly and illustrate by reference or quotation the following subjects:

The characteristics of Lamb's humour.

Chauncer's age was still an age of faith in the great mediaeval ideals.

IV.

8. (*a*) State the period at which the following words entered the English language, explain the influences which brought them into use, and give a four column analysis showing their root and the changes they have undergone: *Apostle, damsel, poor, battle, victual, strange.*

(*b*) Define Palatalisation, vocalisation, apocope, mutation, syncope, and show their operation in the following words: *endure, Marlborough, rise, eldest, pit, lord, thought, captain, Greenwich, lady.*

(*c*) Willam, *th*e rede, al Engelond is sone he bique*th*,
*Th*e yongore, al is porchas ac, as lawe was & wone,
Normandie, is eritage he yef is eldoste sone.
He het dele ek pouueremen muche of is tresorie,
Vor hc adde so muche of hom inome in robberye.
Chirchen he let rere al-so and tresour he yef ynou,

Turn into modern English. Illustrate from the passage (1) peculiarities of the Southern dialect, (2) weakening of the older Anglo-Saxon inflexions, (3) introduction of French words. Make explanatory comments on the words *inome, chirchen, ynou, wone.*

9. Treat briefly and illustrate by reference or quotation the following topics:

The meditative depth of Carlyle's thought.

The "sincerity" of Burns's poetry.

Queen's University Examinations : April, 1904.

Junior History.

1. In what form was land granted by the earlier Kings of France?

2. Explain the changes of the tenure of land under the Carolingian Kings.

3. Trace the development of Feudalism.

4. Give a brief sketch of the Judicial system instituted by Charlemagne.

5. State the circumstances of the founding of the Holy Roman Empire; also the relation of the Emperor and Pope.

6. State the growth of the Royal Power in France through additions to the Royal domain.

7. What was the character of the States General which met at Pontoise (1561)? What was its attitude to the Church?

8. What was Napoleon Buonaparte's object in invading Egypt?

9. What were the demands of Russia and of Prussia at the Congress of Vienna?

PASS.

Senior History.

1. What was the character of Canute's Government? State the feudal influence of the earldoms which he created.

2. What were the effects of the Norman Conquest politically, socially, and ecclesiastically?

3. The sixteen articles of the constitutions of Clarendom may be classed under five heads. State these.

4. When did the House of Commons assert the following rights and privileges: (*a*) that supplies were made dependent on redress of grievances; (*b*) that all money bills must originate in the Commons; (*c*) the right of inquiring into public abuses and controlling the administration?

5. "The Lancastrian Kings were constitutional Kings, but weak rulers." Explain and show wherein their rule differed from that of the Yorkists.

6. What circumstances called forth the Navigation Laws of Henry VII. reign, and what was their character?

7. Criticise the conduct of Elizabeth towards the Protestants of the continent?

8. State briefly the terms of the Act of Settlement.

9. What was the character of the House of Commons before the Reform Bill of 1832?

10. Compare Cabinet Government with responsibility of Ministers in England with Cabinet Government in the United States.

11. State briefly the terms of the Canadian Union Bill of 1840.

Junior Philosophy.

INTRA-MURALS.

(Any seven questions are a full paper.)

1. How does Plato conceive of popular opinion? Consider the value of his method, and contrast it with the method of Protagoras.

2. Give Aristotle's theory of virtue, with comments of your own.

3. Explain what is meant by "dialectic."

4. What do we understand by "grades of consciousness"? Explain carefully.

5. Analyse an experience or state of consciousness into its necessary constituents. Examine the theory that mind consists in a combination or association of sensations.

6. Is there false opinion? If so, how is it to be explained?

7. Discuss the problem of good and evil.

8. Are goodness and beauty categorical (constitutive of reality)? Justify the view you take.

Queen's University Examinations: April, 1904.

Junior Philosophy.

EXTRA-MURAL PAPER.

(Six questions are a full paper. Of these at least two must be taken from A and two from B.)

A.

1. Discuss the influence of sophistic teaching upon (*a*) the established laws and religion of Greece and (*b*) on the philosophy of Plato.

2. How does Plato interpret and criticise the doctrine of Protagoras that "man is the measure of all things."?

3. Outline Plato's theory of Education with special reference to the relation of Dialectic to the other sciences.

4. State and interpret Aristotle's definition of happiness. Compare his view with the Epicurean conception of pleasure as the end of life.

5. "Virtue, then, is a habit or trained faculty of choice, the characteristic of which lies in moderation or observance of the mean." Examine this definition of virtue. Is it equally applicable to both the moral and the intellectual virtues?

B.

6. "As I observed that this truth, *I think, therefore I am*, was so certain and of such evidence that no ground of doubt could shake it, I concluded that I might without scruple, accept it as the first principle of the Philosophy of which I was in search." How did DesCartes arrive at this first principle of his Philosophy?

7. Starting from the above principle how does DesCartes

proceed to prove (*a*) the evidence of God, (*b*) the truth of scientific propositions and (*c*) the reality of eternal objects?

8. (*a*) "As to what is said of the *absolute existence of unthinking things without any relation to their being perceived*, that is to me *perfectly unintelligible.*"

(*b*) "The ideas of sense are more strong, lively, and distinct than those of the imagination." Explain these quotations from Berkeley.

9. What does Berkeley mean by (*a*) "*laws of nature*" and (*b*) "*real things*"?

Queen's University Examinations: April, 1904.

Senior Philosophy.

(Only six questions are to be done.)

1. "Besides the particular aspect of an object there is always a universal aspect." Apply this principle in criticism of the supposed relativity of knowledge.

2. Examine Comte's view of Metaphysic.

3. Criticise Mill's theory of induction.

4. Show that Darwinism involves the idea of purpose.

5. What objections does Kant make to the Design argument?

6. Distinguish between Monadism and Atomism.

7. "The Monad is self-determined." How far is Leibnitz true to this principle?

8. "The objective world existed before the subject, and is therefore independent." Is this argument of Spencer an answer to idealism?

9. What is the element of truth in the Stoical ethics? What is its fundamental defect?

10. How does Kant seek to reconcile natural causation with freedom? Is his solution satisfactory?

11. On what ground does Kant distinguish between (*a*) duties of perfect obligation and (*b*) duties of imperfect obligation? Discuss the validity of the distinction.

12. How does Bentham distinguish a *motive* from an *intention?* Examine his doctrine.

Queen's University Examinations: April, 1904.

Junior Political Science.

1. Discuss the question as to whether the cost of production determines value, or value determines the cost of production.

2. Explain what is implied in the statement that land, labour, and capital are the three agents of production.

3. State the conditions which have enabled paper money to take the place of metallic money, and other devices of exchange to take the place of both.

4. How is the balance of trade maintained between countries whose trade with each other is not of equal value?

5. What are the forces which of late years have tended to the mitigation of economic crises?

6. What are the chief factors determining rates of profit?

Alternative questions for Extra-mural Students.

(*a*) Discuss Ricardo's forecast as to stationary wages and falling interest.

(*b*) What are the elements of truth and error in the wage-fund theory?

Queen's University Examinations: April, 1904.

Senior Political Science.

1. Discuss Aristotle's conception of the place of the economic and military factors in the realization of the good state.

2. What, according to Aristotle, should be the character of the supreme authority in the state? How does this compare with later theories as to the nature of sovereignty?

3. Examine Machiavelli's apology for war and other minor forms of violence. How far will his reasoning apply to modern conditions?

4. What directions did political speculation take after Machiavelli's time?

5. Criticise Rousseau's statement that "the larger the state becomes the more restricted should the government be."

6. Discuss Rousseau's admission that, notwithstanding the social compact, it is necessary "that the social spirit, which must be the work of the enactment of laws, should preside at the enactment itself, and that men should become before the institution of laws what they ought to become by means of them."

Alternative questions for Extra-mural Students.

(*a*) Discuss Leroy-Beaulieu's view that "the state is absolutely devoid of inventive genius."

(*b*) Compare the executive of the state with that of large economic corporations.

Queen's University Examinations: April, 1904.

Junior Mathematics.

A.

1. Find the expansion of $(a+b+c)$ in Σ notation.

2. (*a*) Give any single test for finding if $(x-a)$ be a factor of a given expression, and explain why it is a test.

(*b*) Put into linear factors:

i. $x^4+5x^3+5x^2-5x-6$
ii. $\Sigma a(b^3-c^3)$
iii. x^3+x^2+x+1

3. The attraction at the surface of a planet varies inversely as the square of the planet's radius and directly as its mass. The moon's radius is 1120 and its mass is 1 while the earth's radius is 3980 and its mass 75. If the attraction at the earth's surface be g, find the attraction at the moon's surface.

4. Show that to add the same positive number to both the numerator and the denominator of a fraction brings it nearer to unity.

5. Draw the graph of $2x^2+3x-5$ and deduce from it (*a*) the roots, and the minimum value of the expression; (*b*) the values of x which make the expression positive or negative.

6. How many numbers of 4 digits each can be formed from 1, 2, 3, 4, 5, 6? How many of these will have 1 in the units place?

B.

7. The medians of a triangle are concurrent, and divide one another into parts which are as 2 : 1.

8. (*a*) A concyclic quadrangle has its opposite angles supplementary.

(*b*) If any hexagram be inscribed in a circle, the three alternate angles are together equal to the other three.

9. (*a*) What is meant by the statement that the area of a rectangle is equal to the product of two adjacent sides ?

(*b*) Express the area of a trapezoid in terms of that of a rectangle.

10. (*a*) The difference between the square on the side of an isosceles triangle and on a line drawn from the vertex to the base is equal to the rectangle upon the parts into which the line divides the base.

(*b*) PAB, PCD are secant lines cutting a circle in A,B and C,D respectively then $PA \cdot PB = PC \cdot PD$.

(*c*) On a given line-segment as a side construct a rectangle equal to a given rectangle.

11. Develope a formula for finding the area of a triangle in terms of its three sides.

12. (*a*) Two transversals are divided similarly by a system of parallels.

(*b*) Divide a scale 7 inches long into 12 equal parts.

PASS.

Senior Mathematics.

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1. Find the formula for the sum of a geometrical progression. Under what condition can this give the limit of an infinite series?

2. Sum to n terms the series whose nth term is n^2-2n-1.

3. (*a*) Prove the Binomial theorem for a positive exponent.

(*b*) Find the sum of all the combinations of n things taken 1, 2, 3, ..., n at a time.

4. Show that in a continued fraction the difference between $\frac{P_{n-1}}{Q_{n-1}}$ and $\frac{P_n}{Q_n}$ is $\frac{1}{Q_{n-1}\,Q_n}$; and illustrate it by finding the difference between the 4th and 5th convergents to $\frac{2}{8}\frac{2}{3}\frac{4}{5}$.

5. ABC is any triangle. Find $\cos A$ in terms of the sides; and show that $\sin A = \frac{2}{bc}\sqrt{s(s-a)(s-b)(s-c)}$.

6. Prove the formula for $\sin(A+B)$; and write corresponding expressions for $\cos(A+B)$ and $\tan(A+B)$.

7. In a concyclic quadrangle, the rectangle on the diagonals is equal to the sum of the rectangles on the sides taken in opposite pairs.

8. The tangent at any point on a circle, and the perpendicular from that point on the diameter divide the diameter harmonically. Explain this when the tangent and diameter are parallel.

9. The areas of similar triangles are proportional to the squares on homologous sides.

10. Find the locus of points equidistant from the edges of a three-faced corner.

11. Show by comparing corresponding laminae that two triangular pyramids with equal altitudes and bases of equal areas are equal in volume.

12. A sphere has radius 10, and it is cut by two parallel planes on the same side of the centre and at distances 3 and 6 from it. Find the volume of the zone cut out.

Queen's University Examinations: April, 1904.

Junior Physics.

Properties of Matter, Dynamics, Heat, Magnetism, and Frictional Electricity.

1. Deduce the equations of uniformly accelerated motion.

2. The speed of sound in air is constant, and at 10° C is equal to 33,833 tachs. The depth of the well in the fortress of Konigstein, in Saxony, is 195 metres. In what time should the splash of a stone dropped into the well be heard, if there were no atmospheric resistance?

3. Enunciate Newton's 3 dynamical laws. Two bodies of equal mass describe the same distance from rest, the one in half the time the other does, under the action of uniform forces; compare the forces.

4. Are the following questions of mass or of weight?

(1) Opening of a room door:

(2) Action of a small hammer in driving nails:

(3) Speed of a ball thrown horizontally:

(4) Speed of a ball thrown vertically upwards:

(5) Height reached by a ball thrown with a given speed.

5. The scale of a barometer is etched on the glass tube and is true at 17°. The readings of the barometer and thermometer are 75·67 cm., and 10°. Find the reduced barometric pressure, *i.e.*, the length of the Torricellian column when the mercury is at 0°; given k for mercury $= 1{\cdot}8 \times 10^{-4}$, and k_1 (coef. of linear dilatation) for glass $= 8 \times 10^{-6}$.

6. A water-tap is connected with a mercurial siphon-manometer, and on opening the tap the difference of level of the surfaces of mercury was found to be 4 ft. 3 in.;

find the head of water, and the available hydrostatic pressure in pd.-wt. per sq. in.

7. Having given the velocities of two bodies with respect to the Earth, to determine their velocities relatively to one another.

8. A body of 15 pounds is supported by two strings 3 and 4 ft. long; the other ends of the string are fastened at two points in a horizontal line 5 feet apart; find the tensions of the strings.

9. Enunciate Carnot's thermometric principle and the law of dilatation. Five grams of air at 17° and 75·4 cm. has a density of $1{\cdot}2\times10^{-3}$; find the volume of the air at 100° and 70 cm.

10. Enunciate the laws of the passage from the liquid to the gaseous state.

11. Steam at 100° is forced into snow at —10°; how many grams of snow are melted by a gram of steam? Given l. h. of steam at 100°=537, s. h. of ice=$\frac{1}{2}$, l. h. of water=79.

12. How would you define the thermal conductivity of a substance? Illustrate thermal convection by explaining the directions of the trade and anti-trade winds.

13. What are solar spots? What influence are they found to have on the Earth? How was this discovered?

14. Describe Faraday's ice-pail experiment, and explain what it teaches.

15. On what law does the power of a pointed conductor in discharging an electrified body depend? Describe 2 experiments to shew the power of points.

16. Define electric potential, quantity of electricity, unit quantity of electricity, and electric capacity of a conductor. Give the relation between these in an electrified conductor.

17. Tell all you know about atmospheric electricity.

Queen's University Examinations: April, 1904.

Senior Physics.

Dynamics, Electricity, Light, and Sound.

1. Prove that the K.E. of a body of mass m and speed v is $\frac{1}{2} m v^2$. A ball of 40 pounds is moving with a speed of 300 miles per hour; find its K.E. in foot-pounds.

2. Enunciate the Conservation and Degradation of Energy, and from the latter prove that the time taken for a projectile to reach its highest level is less than the time taken to again fall to the level from which it was projected.

3. A chain 20 ft. long and mass $2\frac{1}{2}$ pds. per ft. is hanging vertically, and is connected by a fine wire of insignificent mass, which passes over a smooth pully to a body of 56 lbs.; find the tensions (1) of the wire, (2) of the chain 2 ft. from the free end.

4. If g, a kilogram-wt., and a force-de-cheval be the units of accr., force, and activity, find in gramtachs and barads the units of momentum and pressure-intensity.

5. Prove that when 3 forces are in equilibrium, their lines of action are coplaner. Thence prove that if a uniform triangular plate be suspended from a point by strings attached to its angular points, the tensions of the strings are proportional to their lengths.

6. Having given the speeds of any number of particles in any direction, determine the speed of their centre of mass in the same direction. What do we know of the motion of the c. of m. of the universe?

7. Enunciate the principle of work and apply it to find the mechanical advantages of the Chinese wheel, and the endless screw.

8. Describe a simple voltaic cell; state its defects, and explain how these defects are met in the Daniell cell.

9. Will zinc or copper give out most heat in combining with oxygen? Prove your answer from the phenomena of electrolysis.

10. Give Ampère's and Clark Maxwell's rules for the action of a current on a magnetic pole. What is an astatic system? How is one generally made?

11. Give 4 important practical applications of the thermal effects of an electric current.

12. Explain the action of a telephone. Also the action and use of a microphone. Whence the energy of the increased sound produced by a microphone?

13. What is the critical angle in refraction of light? Determine its relation to the index of refraction. Explain how it can be determined geometrically.

14. Explain the phenomena of mirage and looming.

15. What do the dark lines in the solar spectrum teach us? How can we produce them artificially?

16. What is a ray of sound? Explain by a diagram the reflection of sound and enunciate the law of reflection of sound.

17. Two trains pass one another with their whistles sounding. The passengers notice a sudden change of pitch: when does this take place? Is it a rise or fall of pitch? Shew how to calculate the change of pitch in terms of the speeds of the trains.

18. What are musical intervals? Give the numerical value of a fourth, and state all the fourths between notes in the diatonic scale.

Queen's University Examinations: April, 1904.

Junior Botany.

FIRST PAPER.

1. Make a list of the plants contained in the bundle submitted in the following form :

No.	Order.	Genus.	Species.

2. Select from the bundle one specimen from each of the following orders and describe as accurately as you can : (1) Root, (2) Stem, (3) Leaves, (4) Flowers, (5) Fruit.

1. Ranunculaceae.
2. Rosaceae.
3. Compositae.
4. Labiatae.

Queen's University Examinations: April, 1904.

Junior Botany.

SECOND PAPER.

Morpholgy and Ecology.

1. What is a root? Define and give examples of the following kinds of roots:—(*a*) Spindle-shaped, (*b*) fascicled, (*c*) adventitious.

2. Explain the following functions of foliage leaves:—(*a*) Photosynthesis, (*b*) transpiration, (*c*) respiration.

3. What is meant by Inflorescence? What is the difference between definite and indefinite Inflorescence? Give some examples of each.

4. Mention the parts of a complete flower and explain the use of each part.

5. State the points of difference between exogenous and endogenous plants.

6. Explain any two ways in which leaves on erect stems are adapted to the light.

7. "Some roots are developed to prop stems or wide-spreading branches." Describe any two cases of this.

8. Explain any two ways in which seeds are adapted for dispersion (*a*) by air, (*b*) by animals.

9. Explain as fully as you can the influence of any two of the following ecological factors on the organization of a plant society:—(*a*) Water, (*b*) heat, (*c*) soil, (*d*) light, (*e*) wind.

10. Define the four great groups of plant societies.

PASS.

Animal Biology.

1. Point out and illustrate the relation of plants and animals to each other and to the crust of the earth.

2. Give special instances of the care for their young shown by birds and amphibians.

3. Classify the Protozoa and describe the bell-animalcule.

4. Compare the structure of a grasshopper with that of a butterfly.

5. Distinguish the orders of amphibia. Give the general characters of birds.

6. Describe how respiration is carried on in animals belonging to the different phyla of the animal kingdom.

7. Draw a diagram of a neuron and shew how neurons compose the nervous system in annelids and in mammals.

Extra-murals and others.

Extra-murals and those who have not attended the pass class will answer questions 3, 4, 5, 6, and in addition the following :—

1. Describe the external form of a turtle. Note any peculiarity in its respiration.

2. Compare the structure of a mussel with that of a pond snail.

3. Distinguish the orders of the crustacea and name examples of each order.

Queen's University Examinations: April, 1904.

Junior Chemistry.

1. An oxide of carbon is discovered having gas density 0·693 (air=1), and containing 20% of oxygen. Discuss the bearing of this on the atomic weight of oxygen and on the formula for water.

2. Discuss the significance of the numbers called atomic weights, considered apart from the atomic theory.

3. A quantity of caustic potash solution requires 32c.c. of normal hydrochloric acid solution to neutralise it. What is the weight of caustic potash (KOH) in the solution? [K=39, O=16. *Normal*=containing the equivalent weight in grammes in a litre of solution].

4. (*a*) Define *valency.* (*b*) Write the equation for the action of sulphurretted hydrogen on solution of lead nitrate and discuss the equation as affording illustrations of valency. (*c*) Write formulas for water, carbon dioxide, and nitric acid, in such a way as to show the valencies of the elements.

5. Define, and explain by means of examples, *alkali*, *alkali metal*, *alkaline*, *alkaline earth*, and *caustic alkali*.

6. Write equations for the electrolysis of the following:

(*a*) Acidulated water.

(*b*) Fused sodium chloride.

(*c*) Sodium chloride solution.

(*d*) Cupric sulphate solution.

Point out in each case any *secondary* actions which take place.

7. Write equations for the action of ammonia solution (ammonium hydroxide) on the following:

(*a*) Nitric acid.
(*b*) Ferric chloride.
(*c*) Zinc sulphate.
(*d*) Sulphuric acid.

8. Write an equation for the combustion of ammonia in oxygen, and deduce the relative gaseous volumes of all the substances.

9. (*a*) Define *allotropism.* (*b*) Give as many examples as you can of allotropic substances. (*c*) How is allotropism explained?

10. Write formulas for the following:

(*a*) Calcium phosphate.
(*b*) Ammonium phosphate.
(*c*) Ferrous sulphate.
(*d*) Ferric sulphate.
(*e*) Calcium nitrate.
(*f*) Sodium nitrate.
(*g*) Ferric nitrate.

Queen's University Examinations: April, 1904.

Senior Chemistry.

(All candidates will take A. Either B or C may be taken to complete the paper.)

A.

1. Give (*a*) a *theoretical* and (*b*) an *experimental* definition of atomic weight, and (*c*) show the application of the experimental definition to the atomic weight of oxygen.

2. Define *heat of formation of a compound, heat of decomposition, heat of reaction, exothermic compound,* and *exothermic reaction,* giving such examples as you can to illustrate the definitions.

3. Calculate the quantity of heat set free when 20 grammes of zinc is dissolved in dilute sulphuric acid. [Heats of formation H_2SO_4 (dissolved), 210·9; Zn SO_4 (dissolved), 248·5.]

4. (*a*) State the "theory of chemical equilibrium." (*b*) What proof is there that in a mixture of alcohol and acetic acid the condition is one of equilibrium between opposing reactions? (*c*) Use the theory of chemical equilibrium to explain the deliquescence and efflorescence of salts, &c.

5. (*a*) State Faraday's Law. (*b*) The same current is passed through acidulated water, and separate solutions of cupric sulphate, silver nitrate, mercuric chloride, mercurous nitrate, and bismuth nitrate. How much metal will be deposited from each salt for every gramme of hydrogen set free from the acidulated water? [Cu=63·5, Ag=108, Hg=200, Bi=210.]

B.

1. (*a*) How can ethane be made from methane?

(*b*) Discuss the bearing of this synthesis upon the theory of the linking of the carbon atoms.

(*c*) Outline the different reactions in which methyl iodide takes part, and bring out the idea of *compound radicals.*

2. (*a*) Define *simple* and *mixed ethers.* (*b*) Give names and graphic formulas of two members of each class. (*c*) Write graphic formulas and names for all compounds of the formula $C_4H_{10}O$.

3. Outline the properties of the aldehydes, using equations and graphic formulas.

4. (*a*) Discuss the use of the term *saponification.* (*b*) Write an outline of the manufacture of *soap,* "*stearine*" *candles,* and *glycerine.*

5. (*a*) What are the characteristic differences between the paraffins and the benzene series of hydrocarbons? (*b*) Give the names and formulas of some of the useful compounds present in coal tar. (*c*) Write the usual graphic formula for benzene and state the properties it is used to explain.

C.

1. Describe (*a*) the chief occurrences of sodium in nature, (*b*) the reduction of sodium, and (*c*) one commercial method for the production of caustic soda.

2. Outline the reduction and refining of sulphur copper ores (using equations), and name the chief alloys of copper with their uses.

3. Define the terms *electrolysis, flux, complex salt, kathode, pyrophoric, metal, precious metal.*

4. Write equations for the reaction of strong sulphuric acid on the following: Lead, tin, mercury, iron, potassium permanganate, potassium bichromate.

5. (*a*) Outline, using equations, the reduction of galena. (*b*) Mention the chief uses of lead, and the dangers in its use for domestic purposes.

Queen's University Examinations: April, 1904.

FACULTY OF ARTS AND PRACTICAL SCIENCE.

Elementary Mineralogy and Blowpipe Analysis.

1. Give with Naumann's symbols the simple crystal forms of the monoclinic system.

2. Sketch the crystal submitted and write Naumann's symbols on the several faces in the sketch.

3. Give with chemical composition the iron minerals and describe in detail any three of them.

4. Describe the following mineral species :—(*a*) Orthoclase, (*b*) graphite, (*c*) apatite, (*d*) spinel, (*e*) corundum, (*f*) cassiterite.

5. Give with commercial uses ten minerals not mentioned in other questions.

6. Give the charcoal reactions for the following elements occurring in minerals: (*a*) Antimony, (*b*) bismuth, (*c*) zinc, (*d*) tin, (*e*) selenium.

7. Give reactions for detecting the following in minerals (*a*) A chloride, (*b*) a sulphate, (*c*) a borate, (*d*) a phosphate, (*e*) a nitrate, (*f*) a silicate, (*g*) a hydrate.

8. Show what uses are made of the following blowpipe reagents and utensils: (*a*) Potassic bisulphate, (*b*) metallic magnesium, (*c*) turmeric paper, (*d*) open tubes.

9. Using minerals as examples, give the several flame-colours.

10. Of what use is the study of mineralogy ?

Practical.

Determine by the blowpipe the numbered specimens and by field tests the letttered specimens.

Queen's University Examinations: April, 1904.

FACULTIES OF ARTS AND PRACTICAL SCIENCE.

Pass Geology and Geology I.

1. Name three examples of each of the three great classes of rocks and describe the rocks you name.

2. Briefly describe the work of glaciers as geological agents, illustrating your answer as far as possible by examples found in Ontario.

3. Describe the formation and character of soils and name some of the rock fertilizers that may be used to improve their condition.

4. Mention the points of resemblance between the composition and structure of the earth and that of other planets and the heavenly bodies.

5. What evidences have we of the instability of the outer crust of the earth?

6. What is a fossil? Describe the natural conditions necessary for fossilization.

7. Classify invertebrate life and give two examples of fossils from each class.

8. Describe with examples the vertebrate life of Mezozoic times.

9. Describe by word or diagram the following fossils, giving the age to which each belongs: Ambonychia radiata, arthrophycus harlani, asaphus canadensis, columnaria, zaphrentis, calamite, ammonite, sigillaria, plesiosaurus, stigmaria, pterodactyl, hesperornis, archeopteryx, bellemnite, mesohippus.

Arts

HONOUR PAPERS.

Queen's University Examinations: April, 1904.

PRELIMINARY AND FINAL HONOURS.

Latin.

I.

For Preliminary and Final Honour Candidates.

Translate into Latin:

"My Lords, there is another reason why it behoves us of all nations in the world to be specially sedulous to lose no time in opening communications with this fertile country of Uganda. In the competition that is preparing between the various nations we fight with special weapons. We have so many interests in so many parts of the world that it may be doubtful whether we shall be willing to run anything approaching to risk for the sake of this African possession; but we have another means of making ourselves secure—a means which it may be said belongs to us alone—and that is not the power of our Government or the negotiation which they may carry on, but the energy, the initiative, the force, the individual force which our people carry with them into any new country which they inhabit. If you keep politics and negotiation off them, in a few years it will be our people who will be masters, though not a sword has been unsheathed, and though not a blow has been struck in their defence." MARQUIS OF SALISBURY.

II.

For Final Honour Candidates only.

The assassination of Abraham Lincoln caused a profound sensation throughout the civilised world. The deliberate malice of the murderer as shown in his preparations, the savage boldness of his deed in the midst of a great assemblage, the contrast of the black crime with the surrounding scene of brightness and pleasure, shocked every human soul not distorted by fanatical hatred. The sincere condolence and tributes of respect to the memory of the dead President that were sent by rulers and cabinets, by cities and associations, by individuals eminent in state and church, in science and art, came from all nations, in almost every language. These messages of sympathy were inspired more by affection than horror, for in the loss of this lowliest-born of men, whose genius had lifted him to the highest powers and prerogatives, who had shared the labours of the humblest and worn the honours of the proudest, all mankind felt a common bereavement.

J. G. NICOLAY in *The Cambridge Modern History*, vol. vii.

Queen's University Examinations: April, 1904.

PRELIMINARY AND FINAL HONOURS.

Latin.

A.

[Set books 1, 2; sight 3, 4.]

Translate:

1. Quocirca astutiae tollendae sunt eaque malitia, quae volt illa quidem videri se esse prudentiam, sed abest ab ea distatque plurimum. Prudentia est enim locata in dilectu bonorum et malorum, malitia, si omnia, quae turpia sunt, mala sunt, mala bonis ponit ante. Nec vero in praediis solum ius civile ductum a natura malitiam fraudemque vindicat, sed etiam in mancipiorum venditione venditoris fraus omnis excluditur. Qui enim scire debuit de sanitate, de fuga, de furtis, praestat edicto aedilium. Heredum alia causa est. Ex quo intellegitur, quoniam iuris natura fons sit, hoc secundum naturam esse, neminem id agere ut ex alterius praedetur inscitia. Nec ulla pernicies vitae maior inveniri potest quam in malitia simulatio intellegentiae, ex quo ista innumerabilia nascuntur, ut utilia cum honestis pugnare videantur. CICERO, *De Officiis* III., XVII. 71, 72.

2. Nox per diversa inquies, cum barbari festis epulis, laeto cantu aut truci sonore subiecta vallium ac resultantis saltus complerent, apud Romanos invalidi ignes, interruptae voces, atque ipsi passim adiacerent vallo, oberrarent tentoriis, insomnes magis quam pervigiles. Ducemque terruit dira quies: nam Quintilium Varum sanguine oblitum et paludibus emersum cernere et audire visus est velut vocantem, non tamen obsecutus et manum intendentis reppulisse. Coepta luce missae in latera legiones, metu an contumacia, locum deseruere, capto propere campo umentia ultra. Neque tamen Arminius quamquam libero incursu statim prorupit; sed ut haesere caeno fossisque impedimenta, turbati circum milites, incertus signorum ordo, utque tali in tempore sibi quisque properus et lentae adversum imperia aures, inrumpere Germanos iubet, clamitans, "En Varus eodemque iterum fato vinctae legiones!"

TACITUS, *Annals* I. LXV.

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3. Ipsos deinde appropinquare legatos adlatum est. Tum enimvero omnis aetas currere obvii, primus quisque oculis auribusque haurire tantum gaudium cupientes. Ad Mulvium usque pontem continens agmen pervenit. Legati circumfusi omnis generis hominum frequentia in forum pervenerunt, cum alii ipsos, alii comites eorum, quae acta essent percontarentur; et ut quisque audierat exercitum

hostium imperatoremque occisum, legiones Romanas incolumes, salvos consules esse, extemplo aliis porro impertiebant gaudium suum. Cum aegre in curiam perventum esset, multo aegrius summota turba, ne patribus misceretur, litterae in senatu recitatae sunt. Inde traducti in contionem legati. L. Veturius, litteris recitatis, ipse planius omnia quae acta erant exposuit cum ingenti adsensu, postremo etiam clamore universae contionis, cum vix gaudium animis caperent. Discursum inde ab aliis circa templa deum, ut grates agerent, ab aliis domos, ut coniugibus liberisque tam laetum nuntium impertirent. LIVY, xxvii. LI.

4. Mihi autem videtur acerba semper et immatura mors eorum qui immortale aliquid parant. Nam qui voluptatibus dediti quasi in diem vivunt vivendi causas cotidie finiunt ; qui vero posteros cogitant et memoriam sui operibus extendunt, his nulla mors non repentina est, ut quae semper incohatum aliquid abrumpat. Gaius quidem Fannius quod accidit multo ante praesensit. Visus est sibi per nocturnam quietem iacere in lectulo suo compositus in habitum studentis, habere ante se scrinium (ita solebat) : mox imaginatus est venisse Neronem, in toro resedisse, prompsisse primum librum quem de sceleribus eius ediderat eumque ad extremum revolvisse, idem in secundo ac tertio fecisse, tunc abisse. Expavit et sic interpretatus est, tamquam idem sibi futurus esset scribendi finis qui fuisset illi legendi. Et fuit idem.

PLINY, *Epistles* v. v. 4, 5.

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5. In what ways does the Second Philippic illustrate Cicero's great abilities as an orator ?

6. Mention and account for peculiar case-forms of nouns found in old Latin inscriptions ; and translate and comment upon the following :—

(*a*) Si in ius vocat, ito. Ni it, antestamino, igitur em capito. Si calvitur pedemve struit, manum endo iacito.

ALLEN, *Remnants of Early Latin.*

(*b*) Ubi est septiens miliens, quod est in tabulis, quae sunt ad Opis? Funestae illius quidem pecuniae, sed tamen quae nos, si iis quorum erat, non redderetur, a tributis posset vindicare.

CICERO, *Philippic* ii. XXXVII.

(*c*) Sed Marcellum insimulabat sinistros de Tiberio sermones habuisse, inevitabile crimen, cum ex moribus principis foedissima quaeque deligeret accusator obiectaretque reo.

TACITUS, *Annals* i. LXXIV.

Queen's University Examinations: April, 1904.

PRELIMINARY AND FINAL HONOURS.

Latin.

B.

(Set books 1, 2, 3, 4; sight 5, 6.)

Translate with brief explanatory notes:

1. CH. Ne male loquere apsenti amico. SY. Quid ille ergo ignavissumus
Latitabat mihi? CH. Si appellasses, respondisset nomini.
Set ubi ipsest? SY. Pol illum reliqui *ad Rhadamam in Cecropia insula.*
CH. Qui homost me insipientior qui ipse egomet ubi sim quaeritem?
Set nil disconducit huic rei. Quid ais? quid hoc quod te rogo?
Quos locos adisti? SY. Nimium mirimodis mirabilis.
CH. Lubet audire, nisi molestumst. SY. Quin discupio dicere.
Omnium primum in Pontum advecti ad Arabiam terram sumus.
CH. Eho,
An etiam in Ponto Arabiast? SY. Est: non illa ubi tus gignitur,
Set ubi apsinthium fit ac cunila gallinacea.
CH. Nimium graphicum hunc nugatorem. Set ego sum insipientior,
Qui egomet unde redeam hunc rogitem, quae ego sciam atque hic nesciat;
Nisi quia lubet experiri quo evasurust denique.

PLAUTUS, *Trinummus* 926-938.

...... Discuss the reading here.

2. Quoi dono lepidum novum libellum,
Arida modo pumice expolitum?
Corneli, tibi: namque tu solebas
Meas esse aliquid putare nugas,
Jam tum cum ausus es unus Italorum
Omne aevum tribus explicare chartis,
Doctis, Iuppiter! et laboriosis.
Quare habe tibi, quidquid hoc libelli est,
Qualecumque; quod, o patrona Virgo,
Plus uno maneat perenne saeclo.

CATULLUS, I.

3. Aeneas, miratus enim, motusque tumultu,
Dic, ait, o virgo, quid vult concursus ad amnem?
Quidve petunt animae? vel quo discrimine ripas
Hae linquunt, illae remis vada livida verrunt?
Olli sic breviter fata est longaeva sacerdos:

Anchisa generate, deum certissima proles,
Cocyti stagna alta vides, Stygiamque paludem,
Di cujus jurare timent et fallere numen.
Haec omnis, quam cernis, inops inhumataque turba est;
Portitor ille, Charon; hi, quos vehit unda, sepulti.
Nec ripas datur horrendas et rauca fluenta
Transportare prius, quam sedibus ossa quierunt.
VERGIL, *Aeneid* VI. 317-328.

4. Ne perconteris, fundus meus, optime Quinti,
Arvo pascat herum, an baccis opulentet olivae,
Pomisne, an pratis, an amicta vitibus ulmo;
Scribetur tibi forma loquaciter et situs agri.
Continui montes, nisi dissocientur opaca
Valle; sed ut veniens dextrum latus adspiciat Sol,
Laevum decedens curru fugiente vaporet.
Temperiem laudes. Quid, si rubicunda benigni
Corna vepres et pruna ferunt? si quercus et ilex
Multa fruge pecus, multa dominum juvet umbra?
Dicas adductum propius frondere Tarentum.
HORACE, *Epistles* I. XVI. 1-11.

Translate:

5. Ipse pavet, nec se, qui sit status, ipse fatetur
Scire ratis rector, nec quid jubeatve, vetetve:
Tanta mali moles, totaque potentior arte est.
Quippe sonant clamore viri, stridore rudentes,
Undarum incursu gravis unda, tonitribus aether.
Fluctibus erigitur, caelumque aequare videtur
Pondus, et inductas adspergine tangere nubes.
Et modo, cum fulvas ex imo verrit arenas,
Concolor est illis, Stygia modo nigrior unda:
Sternitur interdum, spumisque sonantibus albet.
Ipsa quoque his agitur vicibus Trachinia puppis:
Et modo sublimis, veluti de vertice montis,
Despicere in valles, imumque Acheronta videtur;
Nunc, ubi demissam curvum circumstetit aequor,
Suspicere inferno summum de gurgite caelum.
OVID, *Metamorphoses* XI. 492-506.

6. Hic ego, finitimis quamvis circumsoner armis,
  Tristia, quo possum, carmine fata levo.
Quod, quamvis nemo est, cujus referatur ad aures,
  Sic tamen absumo decipioque diem.
Ergo, quod vivo, durisque laboribus obsto,
  Nec me sollicitae taedia lucis habent,
Gratia, Musa, tibi; nam tu solatia praebes,
  Tu curae requies, tu medicina mali:
Tu dux, tu comes es: tu nos abducis ab Istro,

In medioque mihi das Helicone locum.
Tu mihi (quod rarum) vivo sublime dedisti
Nomen, ab exsequiis quod dare fama solet.
Nec, qui detrectat praesentia, livor iniquo
Ullum de nostris dente momordit opus.
Nam tulerint magnos cum saecula nostra poetas,
Non fuit ingenio fama maligna meo.

Ovid, *Tristia* IV. x. 111-126.

7. Write a brief sketch characterizing the humour of Latin Comedy as exemplified in the Trinummus.

FINAL HONOURS.

Latin.

C.

(Set books 1-6; sight 7, 8.)

Translate:

CAELIUS CICERONI SAL.

1. Quod tibi decedenti pollicitus sum, me omnes res urbanas diligentissime tibi perscripturum, data opera paravi qui sic omnia persequeretur, ut verear ne tibi nimium arguta haec sedulitas videatur. Tametsi tu scio quam sis curiosus et quam omnibus peregrinantibus gratum sit minimarum quoque rerum, duae domi gerantur, fieri certiores, tamen in hoc te deprecor, ne meum hoc officium adrogantiae condemnes, quod hunc laborem alteri delegavi, non quin mihi suavissimum sit et occupato et ad litteras scribendas, ut tu nosti, pigerrimo tuae memoriae dare operam, sed ipsum volumen, quod tibi misi, facile, ut ego arbitror, me excusat. Nescio quoius otii esset non modo perscribere haec, sed omnino animadvertere: omnia enim sunt ibi senatus consulta, edicta, fabulae rumores.

Cicero in his letters (*Tyrrell*), xxvii.

2. Vile potabis modicis Sabinum
cantharis, Graeca quod ego ipse testa
conditum levi, datus in theatro
cum tibi plausus,
care Maecenas eques, ut paterni
fluminis ripae simul et iocosa
redderet laudes tibi Vaticani
montis imago.
Caecubum et prelo domitam Caleno
tu bibes uvam: mea nec Falernae
temperant vites neque Formiani
pocula colles.

Horace, *Odes* i. xx.

Translate with explanatory notes:

3. Interiecto deinde haud magno spatio, quod vulneribus curandis supplendoque exercitui satis esset, quum ira maiore [belli], tum viribus etiam auctis, Pometiae arma illata: et quum, vineis refectis aliaque mole belli, iam in eo esset, ut in muros evaderet miles, deditio est facta. Ceterum nihilo minus foede, dedita urbe, quam si capta foret, Aurunci passim principes securi percussi, sub corona

venierunt coloni alii; oppidum dirutum, ager veniit. Consules ob iras magis graviter ultas, quam ob magnitudinem perfecti belli, triumpharunt. LIVY ii. xvii.

4. Autographa quadam epistula, "Caenavi," ait, "mi Tiberi, cum isdem: accesserunt convivae Vinicius et Silius pater. Inter caenam lusimus geronticos et heri et hodie; talis enim iactatis, ut quisque canem aut senionem miserat, in singulos talos singulos denarios in medium conferebat, quos tollebat universos, qui Venerem iecerat." SUETONIUS, *Augustus* LXXI.

5. Seminibus positis superest diducere terram
saepius ad capita et duros iactare bidentis,
aut presso exercere solum sub vomere et ipsa
flectere luctantis inter vineta iuvencos;
tum levis calamos et rasae hastilia virgae
fraxineasque aptare sudes furcasque valentis,
viribus eniti quarum et contemnere ventos
adsuescant summasque sequi tabulata per ulmos.
VERGIL, *Georgics* ii. 354-361.

6. Stemmata quid faciunt? Quid prodest, Pontice, longo
Sanguine censeri, pictosque ostendere vultus
Maiorum, et stantes in curribus Aemilianos,
Et Curios iam dimidios, humeroque minorem
Corvinum, et Galbam auriculis nasoque carentem?
JUVENAL, *Satires* viii. 1-5.

Translate:

7. Ipse aversus a consiliis belli: "hunc" inquit "animum, hanc virtutem vestram ultra periculis obicere nimis grande vitae meae pretium puto. Quanto plus spei ostenditis, si vivere placeret, tanto pulchrior mors erit. Experti in vicem sumus ego ac fortuna. Nec tempus conputaveritis: difficilius est temperare felicitati, qua te non putes diu usurum. Civile bellum a Vitellio coepit, et ut de principatu certaremus armis, initium illinc fuit: ne plus quam semel certemus, penes me exemplum erit; hinc Othonem posteritas aestimet. Fruetur Vitellius fratre, coniuge, liberis: mihi non ultione neque solaciis opus est. Alii diutius imperium tenuerint: nemo tam fortiter reliquerit. An ego tantum Romanae pubis, tot egregios exercitus sterni rursus et rei publicae eripi patiar?"
TACITUS, *Histories* ii. XLVII.

8. O domitor mundi, rerum fortuna mearum,
Miles, adest toties optatae copia pugnae.
Nil opus est votis: iam fatum arcessite ferro.
In manibus vestris, quantus sit Caesar, habetis.
Haec est illa dies, mihi quam Rubiconis ad undas
Promissam memini; cujus spe movimus arma;

In quam distulimus vetitos remeare triumphos:
[Haec eadem est hodie, quae pignora, quaeque penates
Reddat, et emerito faciat vos Marte colonos.]
Haec, fato quae teste probet, quis iustius arma
Sumserit; haec acies victum factura nocentem.
Si pro me patriam ferro flammaque petistis,
Nunc pugnate truces, gladioque exsolvite culpam.
Nulla manus belli, mutato iudice, pura est.
Non mihi res agitur; sed vos, ut libera sitis
Turba, precor, gentes ut ius habeatis in omnes.

LUCAN, *Pharsalia* vii. 250-265.

Queen's University Examinations: April, 1904.

PRELIMINARY HONOURS.

Latin.

Roman History.

(Give dates as far as possible. Do not attempt more than three questions in each part of the paper.)

A.

1. Describe the Roman constitution under the kings. What parts of it survived the inauguration of the Republic?

2. For what purpose was the Decemvirate created? Describe the revolution by which it was overthrown and the constitutional measures which were then passed.

3. To what advantages of circumstance and character would you attribute the rise of the Romans?

4. Trace clearly the steps by which Roman domination became established in Asia Minor.

5. Give a concise sketch of the career of Marcus Antonius the Triumvir.

B.

1. Write an account of Roman attempts at conquest east of the Rhine and north of the Danube.

2. Write a life of Hadrian.

3. Describe Tacitus as a stylist, a critic of character and a historian.

4. Write brief critiques on the philosophy of Lucretius, the genius of Catullus and the literary characteristics of Lucan.

5. Show the political significance of *any four* of the following expressions: (*a*) *Regnum affectat.* (*b*) *Quod tributim Plebes iussisset Populum teneret.* (*c*) *Ex praetura provinciam sortitus est.* (*d*) *Sed quadringentis sex septem millia desunt, plebs eris.* (*e*) *Lex de maiestate.* (*f*) *Cuncta nomine principis sub imperio accepit.*

Queen's University Examinations: April, 1904.

PRELIMINARY HONOURS.

Greek.

1. Translate, with short notes:

Electra, 1058–1081.
Orestes, 807–825.
1323–1343.

2. What forms had the story of Orestes assumed before Aeschylus?

3. "The slaying of Clytemestra by Orestes is a proper subject for the art of Sophocles or Aeschylus, but is wholly unsuited to the new form of art which Euripides was making for." Explain this.

Queen's University Examinations: April, 1904.

PRELIMINARY HONOURS.

Greek.

Aristophanes and Homer.

1. Translate, with short notes:

Homer, Odyssey v., 246– 261.
xi., 487– 503.
Aristophanes, Clouds, 1196–1200.
358– 363.
551– 556.

2. What do you consider to be the chief merits of the Odyssey?

3. How did Socrates come to be classed as a Sophist and so incur the animosity of Aristophanes?

Queen's University Examinations: April, 1904.

PRELIMINARY HONOURS.

Greek.

Thucydides and Plutarch.

1. Translate:

Thucydides iv., chap. 85.
121.
Plutarch, *Pericles* chap. 37.

2. Compare the character and aims of the Athenian Empire and the Peloponnesian League.

3. Criticise Plutarch's account of Pericles.

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Greek.

Homer, Pindar, Aristophanes, Theocritus.

Translate, with short notes :

Homer, Odyssey x., 307–328.
Aristophanes, Clouds, 358–363–1196–1200.
Knights, 1070–1091.
Pindar, Olympian VI., 45–63.
Theocritus, Id. VII., 42–70.

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Greek.

Aeschylus, Sophocles, Euripides.

Translate, with short notes:

Aeschylus,	Agamemnon,	975–1017.
	Prometheus,	593– 608.
Sophocles,	Electra,	1482–1490.
	Antigone.	365– 375.
		904– 912.
Euripides,	Medea,	627– 642.

FINAL HONOURS.

Greek.

Thucydides, Herodotus, Demosthenes, Plutarch.

Translate, with short notes :

Thucydides, II., chap. 39.
III., chap. 82 §§ 1, 2, 3, 4.
IV., chap. 61.
VII., chap. 87—(*any two*).
Herodotus, IX., chap. 94.
Demosthenes, De Corona, chap. 296.
Olynthiac III., chaps. 34, 85.
Plutarch, Pericles, chap. XXXVII.

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Greek.

Prose and Unseen Translation.

1. Translate into Greek :

The Greek philosophers passed their days in learned leisure and retirement. Speculation was the employment of their lives, and their works were the result of uninterrupted study and reflection. The Romans on the other hand, regarded philosphy, not as the business of life, but as an elegant relaxation, or as an avenue to advancement in the state. They heard with attention the ingenious disputes agitated among the Greeks, and perused their works with pleasure; but they had no time to invent new theories. The philosophers of Rome were men who governed their country at home, or combated her enemies abroad. They had, indeed, little motive to invent new systems, since so many were presented to them ready formed. In the same manner as the plunder of Syracuse or Corinth supplied Rome with her statues and pictures, and rendered unnecessary the exertions of native artists; and as the dramas of Euripides and Menander provided sufficient materials for the Roman stage; so the Garden, Porch, and Academy furnished a variety of doctrines which must have discouraged the formation of new and original theories.

2. Translate into English :

Thucydides viii., chap. 76.

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Greek.

GENERAL PAPER.

(N.B.—You are recommended to attempt six questions.)

1. Describe the social and political system pictured for us by Homer.

2. In what sense was there a real Achean age and civilization?

3. Trace the growth of the conception of literary criticism in Greek literature.

4. What are the striking characteristics of Pindar's poetry?

5. How far was the genius of Euripedes cramped by the conditions under which he wrote?

6. Do you consider Aristophanes to have been a serious moral and political reformer?

7. Contrast a typical Greek state with the Persian empire in the matter of (*a*) spirit, (*b*) organization.

8. Sketch the history of the Confederacy of Delos.

9. Was Pericles a great statesman?

10. Briefly describe the life of an Athenian citizen in the age of Pericles.

11. What were the motives that actuated the Greek states which adhered to Sparta in the Peloponnesian war?

12. By what steps did Philip of Macedon establish himself in Greece?

Queen's University Examinations: April, 1904.

Latin and Greek Philology.

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1. Give a list of the Indo-European languages.

2. How would you determine that a word belonged to the original Indo-European language?

3. Does the Greek or the Latin vowel-system approach more nearly to the Indo-European vowel-system?

4. Of the Greek dialects which appears to retain the most primitive forms?

5. Give some of the vowel gradation-series, with a short explanatory statement.

6. Show the importance of the *o—e* series in Latin and Greek verbs.

7. Show the effect on Latin of the absence of accent in the last syllable.

8. In comparing *capio*, with its compound *concipio*, how would you explain the change of *a* to *i*?

9. Account on phonetic grounds for the difference between the genitives plural *poetarum*, *ποιητῶν*.

10. In comparing the Latin *sal* with the Greek *ἅλς*, state which of these forms obeyed Indo-European usage.

11. Show how the four conjugations of Latin came from one originally.

12. In comparing the Greek *γένος*, *γένους* with the Latin *genus*, *generis*, state the phonetic laws that were obeyed in the different languages.

Queen's University Examinations : April, 1904.

PRELIMINARY, INTERMEDIATE, AND FINAL HONOURS.

Deutsche Literatur.

I.

1. Candidaten werden ersucht, den Zusammenhang folgender Stellen mit ihren Werken zu bezeichnen, diese Stellen im Allgemeinen zu deuten und die in Cursivschrift gedruckten Worte genau zu erklären :

(*a*) Und ich, der Gottverhaszte,
Hatte nicht genug,
Dasz ich die *Felsen faszte*
Und sie zu *Trümmern schlug*;
Sie, ihren Frieden muszt' ich *untergraben !*

(*b*) Ich merke wol, ihr seid der Herr vom Haus,
Und will *mich* gern *nach euch bequemen:*
Allein bedenkt, der Berg ist heute *zaubertoll,*
Und wenn ein Irrlicht euch die Wege weisen soll,
So müszt ihr's so *genau nicht nehmen.*

(*c*) Dasz ich noch mein Leben darüber *in die Schanze schlagen* wollte.—Als ich sah, dasz weder Ernst noch Spott den Grafen bewegen konnte, seine Liebe *der Ehre nachzusetzen*, versucht' ich es, ihn *in Harnisch zu jagen.* Ich sagte ihm Dinge, über die er sich vergasz. *Er stiesz Beleidigungen gegen mich aus*, und ich *forderte Genugthuung*,—und forderte sie gleich *auf der Stelle.*—Ich dachte so entweder er mich, oder ich ihn. Ich ihn: so ist das Feld ganz unser.

(*d*) Verflucht sei, wer sein Leben an das Grosze
Und Würd'ge wendet und *bedachte* Pläne
Mit weisem Geist *entwirft !* Dem Narrenkönig
Gehört die Welt.

2. Es sind folgende Sätze oder Satzteile auf Deutsch genau zu deuten :

Dem Liebhaber könnte es sogar schmeicheln, einem so wichtigen Mitbewerber den Rang abzulaufen.—Wie kann ich sie ihnen vorenthalten.—Dacht' ich's doch.—Das einzige Glück, was meiner Liebe zu statten kommen konnte.—Gräfin, Sie würden sich um den Hals reden.—Dem Vater hat niemand einzureden.—Ich führ' es aus und löse mein Gelübde.—überdrüssig bin ich dieser Sonne.

II.

(Es sind nur zwei der zweiten, dritten, vierten und sechsten Fragen zu beantworten.)

1. Man schreibe den Inhalt des ersten Teils des Faust nieder mit besonderer Hervorhebung der Bedeutung des Prologs im Himmel und dessen Verhältniss zum Ganzen.

2. Man commentiere die vorletzte Rede im Prolog:

> Du darfst auch da nur frei erscheinen;
> Ich habe deinesgleichen nie gehasst. u.s.w.
>
> * * * *
>
> Und was in schwankender Erscheinung schwebt
> Befestiget mit dauernden Gedanken.
>
> Wenn aus dem schrecklichen Gewühle
> Ein süss bekannter Ton mich zog,
>
> * * *
>
> So fluch ich allem, was die Seele w.s.w.

3. Was verflucht er und warum?

Weh! Weh! Du hast sie zerstört, Die schöne *Welt*, u.s.w.

4. Was ist der Inhalt der übrigen Zeilen? Wessen Worte sind dies?

5. Vergleichen Sie die Bestimmungen des Vertrags zwischen Faust und Mephistopeles mit den der Wette im Prolog und erklären Sie etwaige Verschiedenheiten. Ist der Vertrag überhaupt nötig? Wird er schliesslich folgerichtig erfüllt?

6. "Associert Euch mit einem Poeten, u.s.w." Was ist die volle Bedeutung von diesen und folgenden Zeilen?

7. Candidaten werden ersucht, kurz gefasst zu zeigen, wie "Emilia Galotti" und "die Jungfrau von Orleans" die Forderungen eines regelrechten Dramas erfüllen.

8. Wie ist der Schluss der "Jungfrau" als poetischer Ausdruck der wirklichen Geschichte erklärbar? Wie sind die anderen Unwahrscheinlichkeiten oder Wunder zu erklären?

III.

(Nur drei Fragen sind zu beantworten.)

1. Wie teilt Kluge die Geschichte der Deutschen Literatur bis zur zweiten Blüteperiode ein? Allgemeine Bezeichnung jeder Periode ersucht.

2. Welche Versuche waren im 18ten Jahrhundert zum Reformieren der Deutschen Literatur gemacht? Wie kam es, dass derartige Versuche nötig waren?

3. Was veranlasste die Sturm-und Drang-Bewegung? Welches waren ihre Grundsätze? In wie fern standen Goethe und Schiller unter ihrem Einfluss?

4. Eine Skizze von Goethe's Leben bis zum Erscheinen des I. Teils des Faust.

5. Unter welchen Umständen entstand "die Räuber." Tendenz des Werkes?

6. Eine Schätzung von Schiller als Geschichtschreiber.

Queen's University Examinations: April, 1904.

PRELIMINARY, INTERMEDIATE, AND FINAL HONOURS.

German.

(NOTE:—Preliminary candidates will omit B.)

A.

THE GOLDEN-CRESTED WREN (GOLDHÄNCHEN).

(*a*) This lovely little bird is so small and light that it can cling suspended on the end of a single narrow leaf, or needle of pine, and it does not depress the least branch on which it may alight. The gold-crest frequents the loneliest heath, the deepest pine wood, and the immediate neighbourhood of dwellings indifferently. A Scotch fir or pine grew so near a house in which I once lived that the boughs almost brushed the window, and when confined to my room by illness, it gave me much pleasure to watch a pair of these wrens who frequently visited the tree. They are also fond of thick thorn hedges, and, like all birds, have their favourite localities, so that if you see them once or twice in one place, you should mark the tree or bush, for there they are almost certain to return. It would be quite possible for a person to pass several years in the country and never see one of these birds. There is a trick in finding birds' nests, and a trick in seeing birds. The first I noticed was in an orchard; soon after, I found a second in a yew tree (close to a window), and after that constantly came upon them as they crept through brambles or in hedgerows, or a mere speck up in a fir tree. So soon as I had seen one, I saw plenty.

(*b*) My next topic in the delineation of Mill's character is his style. He is allowed to be not only a great thinker, but a good writer. His lucidity, in particular, is regarded as preëminent. Exceptions are taken by the more fastidious critics; he is said by Mr. Pattison to be wanting in classical grace and literary polish.

I have already expressed the opinion that the language faculty in him was merely ordinary. Great cultivation had given him a good command of expression for all his purposes, but nothing could have made him a Macaulay.

B.

I did not rise with the expectation that I should convince honourable gentlemen that they are wrong and that I am right; the most that I can hope for is, that some fact or some argument may find a lodgment in some mind, and may moderate hostility to a proposal which I think the country requires, and the country is anxious to receive. I have not spoken in favour of the

Government. I have said that I think their figures are wrong and untrue—injurious to their own bill and their own case. Now, will the House believe for once that I am speaking to them from no party spirit, from no desire to do anything in the country or to the country more than they would wish? My view of the public interest is at least as conscientious and as honest as theirs can be. I have been misrepresented, and condemned, and denounced, by honourable gentlemen opposite, and by not a few writers of their press. My conscience tells me that I have laboured honestly only to destroy that which is evil, and to build up that which is good. The political gains of the last twenty-five years, as they were summed up the other night by the honourable member from Wick, are my political gains, if they can be called the gains, even in any degree, of any living Englishmen.

C.

Themata zu einem deutschen Aufsatz:

1. Das Faustproblem und dessen Lösung bei Gœthe,
2. Die Zukunft Canadas *oder*
3. Warum studiert man fremde Sprachen?

Queen's University Examinations: April, 1904.

PRELIMINARY, INTERMEDIATE, AND FINAL HONOURS.

German—Sight Translation.

(NOTE.—Candidates for preliminary honours will omit B.)

A.

(*a*) Einige Tage darauf wurde Anton durch Fink in das Haus der gnädigen Frau gefüht, im neuen Frack, in regelrechten Glacéhandschuhen, ein Opferlamm finsterer Mächte, welche im Begriff waren den Frieden seines Innern zu zerstören. Sie lauerten in dem Hause der gnädigen Frau und schnürten dem eintretenden Anton schon im Hausthor die Brust zusammen. Sie sassen auf der viereckigen Laterne, welche am Gewölbe des Hausflurs baumelte, sie hingen mit ausgebreiteten Händen an dem Holzgeländer der Treppe und steckten durch die grossen Bogenlöcher des Geländers ihre Geisterzungen mit höhnischem Lachen gegen ihn aus. Fink sah mit unwilligem Blick, wie sein Opfer den röthlichen Schimmer der Beklommenheit erhielt, er raunte ihm noch zu: "Unterstehe dich nicht, vor diesem Volke roth zu werden," warf dem Diener herablassend seinen Ueberrock zu und führte den Freund unter die Augen der gnädigen Frau. Diese war wirklich, wie Fink prophezeit hatte, eitel Zuvorkommenheit. Mit Neugierde und einem gewissen menschlichen Antheil sah sie auf den hübschen schüchternen Jungen, der mit seinem treuherzigen Gesicht vor ihr stand und vollständig geneigt schien, ihre Macht auf sich wirken zu lassen.

B.

(*a*) An sich ist klar, wahrhaft und im tiefsten Grund konnte das Uebel nur gehoben werden, wenn das stockende Leben wieder in Fluss kam, wenn ein frischer, überwältigender, nationaler Gehalt die verknöcherten und verflachten Germüther zu spornender That und Begeisterung rief. Dies ist das Geheimniss, warum Friedrich der Grosse trotz seiner Verkennung und Missachtung des deutschen Geistes nichtsdestoweniger im höchsten Sinn der Befreier der Deutschen wurde.

(*b*) Sofort aber forderte die öffentliche Meinung Frankreichs, zu deren Organ sich der Herzog von Gramont (bisher Botshafter in Wien), der neue Minister des Auswärtigen, machte, mit wilden Drohungen gegen Preussen, dass die Bewerbung zurückgezogen werde, da ein Hohenzoller auf dem spanischen Throne Frankreich im Rücken bedrohe, und Graf Benedetti wurde angewiesen, in diesem Sinne auf den König Wilhelm (in Ems) einzuwirken. Der greise Monarch, im Augenblick ohne jeden diplomatishen Beirat

(Graf Bismarck war in Barzin), lehnte jede Beeinflussung des Prinzen Leopold, bestimmt ab, doch dessen Vater Fürst Anton erklärte ohne weiteres am 12. Juli, sein Sohn verzichte, weil er um einer Familienfrage willen nicht Deutschland in einem schweren Krieg verwickeln wollte

(*c*) Enstigo enti milteo trohtin, du eino uneist uueo mino durfti sint: in dino kanada enti in dino miltida, uuiho truhtin, pifilhu min herza ia minan cadanc ia minan uuillun ia minan mot ia minan lip ia miniu uuort ia miniu uuerh. Leisti, uuiho truhtin, dino kanada in mir suntigin enti unuuirdigin scalhe dinemo; kauuerdo mih canerien fona allemo upile.

(*d*) Kriemhilt in ir muote sich minne gar bewac.
Sit lebete diu vil guote vil manegen lieben tac,
Daz sine wesse niemen den minnem wolde ir lip.
Sit wart si mit êren eins vil küenen recken wip.

Der was der selbe valke, den si in ir troume sach,
Den ir beschiet ir muoter. Wie sêre si doz rach
An ir naehsten mâgen, die in sluogen sint!
Durch sîn eines sterben starp vil maneger muoter kint.

Queen's University Examinations: April, 1904.

PRELIMINARY AND FINAL HONOURS.

German.

I.

1. Refer each passage to its context and the work from which it is taken. Explain in German italicized words and translate, (d) :

(*a*) Kinn und Wangen waren von leichtem Bart *umschattet*, durch den an der linken Seite hochroth die breite Narbe seiner Halswunde hinlief. Auch war, während er in aller Kraft sein starkes Pferd *regierte*, eine leichte Blässe aus seinen Wangen noch nicht verschwunden, die nur dann und wann von einem *bescheidenen* Roth *überflogen* wurde.

(*b*) Das liesz sich der Baron von ihnen erzählen auf dem Weg von der Schaukel bis zu ihrer Hütte. Indessen *hüllte* die Dämmerung sie immer dichter *ein*, und es ward kalt auf der freien Höhe. Das steinerne Meer blickte grau herüber, gespenstisch bleich stand das Schneehaupt des *Martzmann* vor der *entfärbten* Luft, und drüben aus dem unsichtbaren *Kessel* des Obersees dampfte ein weiszer Nebel langsam herauf.

(*c*) Als er spät in der Nacht aus dem *traulichen Kreise* dieser fremden Menschen, die ihn wie einen alten Freund aufgenommen, nach Hause kam, befand er sich in einer sehr ähnlichen *Verfassung*, wie an jenem ersten Winterabend, wo wir ihn kennen gelernt, voll Lebensfreude und Sehnsucht nach Glück, nur ohne die ziellose Unruhe, die ihn damals umgetrieben hatte. Auch heute konnte er so bald noch nicht schlafen.

(*d*) "Ich nehme die Sache nicht so leicht. Es ist einfach *Skandal*. Gott sei Dank, haben sich endlich auch die *Vorgesetzten 'mal aufgerappelt*. Das ging denn doch selbst diesen Brüdern *über die Hutschnur*. *Aus bester Quelle* weisz ich, dasz man ihm jetzt *das Handwerk legen wird*. Werden ihn wohl in ein Kloster stecken. Freilich hat sich der Mensch herausreden wollen. Hat sich, glaub' ich, auf—na, auf sein Christentum berufen wollen. Oder auf so was Aehnliches. Ein schönes Christentum—könnte jedem passen—danke dafür."

(*e*) Dann greift sie weider zum Besen und fegt rechts und links, voller Groll, dasz der graue Staub hochaufwirbelt; unermüdlich kehrt sie im glühenden Sonnenbrande weiter, bis sie einmal selbst

vom Besen des Todes auf den allgemeinen Kehrichthaufen gefegt wird.

2. Write in German, (*a*) the origin of the pagan Easter festival and (*b*) a synopsis of "Ludwig der Springer."

3. Write in German a synopsis, with a critique, of "Klare Rechnung."

4. Make a classification of the works of "Neuland" according to the grades of society therein depicted.

(*a*) Es wird ersucht, folgende Wendungen auf Deutsch zu erklären.

Da wäre er schön angekommen.—Er hätte dem Bösewicht den Garaus gemacht.—Sie mussten ihrem Vater reinen Wein schenken.—Schmalhans war bald Küchenmeister in Memel.—Der Glaser machte sich aus dem Staube.—Er that sich gütlich an Speise und Trank.—Der Major hatte ein bischen über die Schnur gehauen?

(*b*) Folgende Sätze since ins Deutsche zu übersetzen:

Never look a gift-horse in the mouth.—He found a way to pay him back in his own coin.—Out of the way with everything, which does not bear the stamp of wisdom, for you must keep pace with the times.—The end of the matter was that I gave him a good beating.—I call your attention to the fact that you must believe that you have a genuine diamond.—Always take opportunity by the forelock.

II.

1. Für die Naturalisten ist der Sinn für das Wirkliche wichtiger als alle Phantasie . . . , braucht nur ein Fetzen des wirklichen Lebens erfasst zu werden . . . , ist die Vorliebe für das Hässliche und Gemeine eine wichtige Eigenschaft.

How far is the above applicable to "Neuland"?

2. Die Aufgabe der Novelle ist ein psychologisches Problem in einer gewissermassen dramatischer Zuspitzung in den engen Raum einer begrenzter Erzählung zusammenzudrängen und durch diese Erzählung zu lösen.

Show by reference to any three of the *Novellen* read, how far Heyse fulfills this *Aufgabe.*

3. Show the use made of description, and of natural phenomena in "Der Verlorene Sohn."

III.

1. Give a short account of the German Romantic school, and estimate the value of romanticism in literature.

2. Give a short account of Heyse and his work, and state the principles of his art.

3. Give some account of his school and compare with previous and succeeding phases of literature.

Queen's University Examinations: April, 1904.

INTERMEDIATE AND FINAL.

German.

NOTE.—Candidates taking Intermediate German only may omit 1 (*b*), 2 (*c*), and 3 (*b c*).

I.

Translate into Modern High German :

1. (*a*) Jah atiddjedun in gard, jah gaïddja sik managei, svasve ni mahtedun nih hlaif matjan. Jah hausjandans fram imma bokarjos jah antharai usiddjedun gahaban ina; qethun auk patei usgaisips ist. Jah bokarjos pai af Iairusaulymai qimandans qethun thatei Baiailzaibul habaip, jah patei in pamma reikistin unhulpono usvairpith thaim unhulthom.

(*b*) Jah vas is ana notin ana vaggarja slepands, jah urraisidedun ina jah qepun du imma: laisari, niu kara puk pizei fraqistnam? Jah urreisands gasok vinda jah qap du marein: gaslavai, afdumbn! Jah anasilaida sa vinds jah varp vis mikil.

2. (*a*) So daz himilisca horn   kihlutit unirdit,
enti sih der suanari   ana den sind arhevit
[der dar suannan scal   toten enti lepenten],
denne hevit sih mit imo   herio meista,
daz ist allaz so pald   daz imo nioman kipagan ni mak.

(*b*) Thaz láz thir uuesan sùazi: so mézent iz thie fúazi:
zít ioh thiu régula   so ist gótes selbes brédiga.
Vuil thú thes uuola dráhton,   thu métar uuolles àhton,
in thína zungun uuirken duam,   ioh sconu uérs uuolles dúan:—

(*c*) Thie búachara ouh tho tháre   gisámanota er sare,
sie uuas er frágenti,   uuar Kríst giboran uurti;
Er sprah zen éuuarton   sélben thesen uuórton.
gab ármer ioh ther rícho   ántuurti gilícho,
Thia burg nántum se sár,   in féstiz datun álauuar
mit uuórton then ér thie áltun   fórasagon záltun.

3. (*a*) E daz si rehte erfunde   daz iz waere ir man,
an die Hagenen vrage   denken si began,
wie er in solde vristen: do wart ir erste leit.
von ir was allen vreuden   mit sime tode widerseit.

Do seic si zuo der erden,   daz si niht ensprach:
die schoenen vreudelosen   ligen man do sach.

Kriemhilde jamer   wart unmazen groz:
do erschre si nach unkreft   daz al diu kemenate erdoz.

(*b*) stig unde wege sint in benomen:
untriuwe is in der saze,
gewalt vert uf der straze
fride unde reht sint sere wunt.
diu driu enhabent geleites niht,
diu zwei enwerden e gesunt.

α. Parse and give principle parts of

1. *Gaïddja*, *mahtedun*, *gahaban*, *qethun*, 1 (*a*);

2. *Laz*, *uuesan*, *Vuil*, 2 (*b*).

β. Give in Gothic, O.H.G. and M.H.G. the principal forms, the present indicative in full, of *erfunde*, *waere*, *ligen*, *sach*, and the declension of *er*, *man*, and *der erden* 3 (*a*).

γ. Mention the words of Latin origin in 2 (*b*), and account for their introduction.

II.

1. Show accurately the relation of Modern High German to the Germanic languages under consideration, as well as of these to one another.

2. Explain the terms, *Lautverschiebung*, *Grammatischer Wechsel*, *Präterito-Präsentia*.

3. State concisely Luther's part in the development of the German language.

4. Outline briefly in German the *Niebelungenlied*; state the mythical in it, and compare this with the Norse.

5. Give the position of the word accent in Modern High German.

III.

1. Characterize briefly in its main features, with mention of principal works and writers, the literature of the 3rd period.

2. Write explanatory notes on *Heliand*, *Hildebrandslied*, Till Eulenspiegel, Hrabanas Maurus, Hugo von Tremberg.

Queen's University Examinations: April, 1904.

INTERMEDIATE AND FINAL HONOURS.

Deutsche Literatur.

(NOTE.—Zwischencandidaten sollen die speziell auf Schlusscandidaten sich beziehenden Fragen nicht beantworten.)

A.

(Candidaten werden ersucht den Zusammenhang folgender Stellen mit ihren Werken genau zu bezeichnen, und die in Cursiv-Schrift gedruckten Ausdrücke zu erklären.)

(*a*) Seid kein Narr! flüsterte Praxedis. Erst habt Ihr *Euer Haus auj den schimmernden Regenbogen gezimmert*, und nun es zusammengefallen, wollt Ihr Euch *miszhandeln* lassen! Als wenn *die* ein Recht hatten, Euch zu *geiszeln* und *fortzuschleppen!*

(*b*) Dieser Angriff des Gegners entschied seinen inneren Kampf. "Wenn ich das Bellen meiner Hunde ertrage, so können's andere Leute auch ertragen. Dort spielen die Glocken, heir singen die Hunde, und wenn Jemand von der Polizei meine Ansicht hören will, so soll er genug zu hören bekommen."

(*c*) Noch einmal griff sie, mit letzter Kraft, mit beiden Armen hoch nach oben, die Hände in den Sand einbohrend bis an die Knöchel, sich empor zu ziehen, noch einmal sahen die groszen schönen *Rehaugen* flehend ach so verziveiflungsvoll! Zu dem *schweigenden* Himmel auf, noch ein wilder Ruck—nun ein dumpfer Ton wie von schwerem Schlag und Fall........... Uber ihr hohes Grab raste frohlockend, wie triumphirend der Sturm der Wüste.

B.

1. Es ist etwas Verstiegenes in "der verlorenen Handschrift"; die Hauptpersonen alle participieren daran.

Wer sind die Hauptpersonen und wie participieren sie an diesem "etwas Verstiegenes"?

2. Was sind die Forderungen eines historischen Romans, und in wie fern erfüllen "Gelimer" und "Ekkehard" diese Forderungen?

3. Stellen Sie einen Vergleich Zwischen Dahn und

Scheffel, (*a*) mit Bezug auf ihre Einbildungskraft; wie Zeichner von, (*b*) Landschaften, (*c*) Charakteren.

4. Es wird ersucht die Inhaltsangabe vom "Trompeter von Säkkingen" zu geben und eine Kritik darüber hinzuzufügen.

5. Was für einen Einflusz haben die Religion und der Aberglaube auf die Handlung in "Gelimer"?

6. Erwähne man Vorzüge und Mängel dieses Werkes.

7. Geben Sie eine Würdigung von Freytags Humor.

HONOURS.

German—Dictation.

Die Morgensonne schien in ein in einem reizvoll altmodischen Stil eingerichtetes, mit hohen Möbeln und Büchern angefülltes Zimmer. Auf den Tischen standen bestaubte Flaschen und Retorten, auch physikalische Instrumente. Der Schreibtisch war bedeckt mit zahlreichem, wertvollem, aber unbenutztem Allerlei, und an den Fenstern hingen einst schöne, aber von der Sonne ihrer Farben fast entkleidete, grünseidene Gardinen.

Niemand war darin; es schien überhaupt nicht mehr bewohnt zu werden; ein einsam ausgestorbener Raum, in dem einst ein stiller, emsiger Mensch gewaltet, den lange die Erde bedeckte.

Das Gemach lag zur Rechten, nach dem Garten hinten, in einem weitläufigen Hause in dem grossen, nordischen Dorfe Munke.—Es gehörte einem Arzte, dem Doktor de Fouqué, einem Manne, von dessen stummer Eigenart und abgeschlossenem Wesen, bei grösster Hilfsbereitheit, zahlreiche Erzählungen im Umlauf waren.

Ringsum in den Dorfschaften und auf den adeligen Gütern war er als Arzt beschäftigt. Er kam nnd ging mit seinem kurzen Schritt, schaute den Menschen mit scharfem Blick in die Augen und ordnete an, was geschehen solle. Selten vermochte man ihn zu halten; bei seiner ausgebreiteten Thätigkeit fehlte es ihm an Zeit; aber er war auch kein Mann, der an blossem Schwatzen Gefallen fand.

Queen's University Examinations: April, 1904.

HONOURS.

French.

Literature.

A.

1. [For Preliminary Honours only.] Translate :

(*a*) Toi, reste, brave Omar : il est temps que mon cœur
De ses derniers replis t'ouvre la profondeur.
D'un siège encor douteux la lenteur ordinaire
Peut retarder ma course et borner ma carrière:
Ne donnons point le temps aux mortels détrompés
De rassurer leurs yeux de tant d'éclat frappés.
Les préjugés, ami, sont les rois du vulgaire.
Tu connais quel oracle et quel bruit populaire
Ont promis l'univers à l'envoyé d'un dieu
Qui, reçu dans la Mecque et vainqueur en tout lieu
Entrerait dans ces murs en écartant la guerre;
Je viens mettre à profit les erreurs de la terre.
Mais tandis que les miens, par de nouveaux efforts,
De ce peuple inconstant font mouvoir les ressorts,
De quel œil revois-tu Palmire avec Séide ?

(*b*) Mas., (*après avoir salué.*) Mesdames, vous serez surprises, sans doute, de l'audace de ma visite; mais votre réputation vous attire cette méchante affaire, et le mèrite a pour moi des charmes si puissants, que je cours partout après lui.

Mag. Si vous poursuivez le mérite, ce n'est pas sur nos terres que vous devez chasser.

Cath. Pour voir chez nous le mérite, il a fallu que vous l'y ayez amené.

Mas. Ah! je m'inscris en faux contre vos paroles. La renommée accuse juste en contant ce que vous valez; et vous allez faire pic, repic et capot tout ce q'il y a de galant dans Paris.

Mag. Votre complaisance pousse un peu trop avant la libéralité de ses louanges; et nous n'avons garde, ma cousine et moi, de donner de notre sérieux dans le doux de votre flatterie.

2. [For Intermediate and Final Honours only.] Translate :

(*a*) Fros. Il y a de certains services qui touchent merveilleusement.

La Fl. Je suis votre valet, et tu ne connois pas encore le Seigneur Harpagon. Le Seigneur Harpagon est de tous les humains l'humain le moins humain, le mortel de tous les mortels le plus dur et le plus serré. Il n'est point de service qui pousse sa reconnoissance jusqu'à lui faire ouvrir les mains. De la louange, de l'estime, de la bienveillance en paroles, et de l'amitié tant qu'il vous plaira; mais de l'argent, point d'affaires. Il n'est rien de plus sec et de plus aride que ses bonnes grâces et ses caresses; et *donner* est un mot pour qui il a tant d'aversion, qu'il ne dit jamais: *Je vous donne, mais; Je vous prête le bon jour.*

(*b*) Aussi la mort de cet homme ne contrasta-t-elle point avec sa vie. Dès le matin il se faisait rouler entre la cheminée de sa chambre et la porte de son cabinet, sans doute plein d'or. It restait là sans mouvement; mais il regardait tour à tour avec anxiété ceux qui venaient le voir et la porte doublée de fer. Il se faisait rendre compte des moindes bruits qu'il entendait; et, au grand étonnement du notaire, il entendait le bâillement de son chien dans la cour. Il se réveillait de sa stupeur apparente au jour et à l'heure où il fallait recevoir des fermages, faire des comptes avec les closiers, ou donner des quittances.

(*c*) Murs, ville,
Et port,
De mort,
Mer grise
Où brise,
La bise,
Tout dort.

Dans la plaine
Naît un bruit.
C'est l'haleine
De la nuit.
Elle brame
Comme une âme
Qu'une flamme
Toujours suit.

La voix plus haute
Semble un grelot.
D'un nain qui saute
C'est le galop.
Il fuit, s'élance,
Puis en cadence
Sur un pied danse
Au bout d'un flot.

La rumeur approche,
L'écho la redit.
C'est comme la cloche
D'un couvent maudit,
Comme un bruit de foule
Qui tonne et qui roule,
Et tantôt s'écroule
Et tantôt grandit.

3. Translate :

(*a*) *Quinto.* L'humble Pétition
Ou suppliante adresse au héros de Sion!—
Tout les members du parlement font un profound salut à Cromwell qui leur répond d'un signe de tête.
Ayant considéré qu'il est d'usage antique
De clore par un roi tout débat domestique,
Que Dieu même, à son peuple ayant donné ses lois,
Changea la chaire en trône et les juges en rois;—
Ouï les orateurs présentés pour et contre;—

A milord protecteur le parlement remontre
Qu'il faut pour chef au peuple un seul individu,
A qui des anciens rois le titre soit rendu,
Et supplie Olivier, protecteur d'Angleterre
D'accepter la couronne, à titre héréditaire.

(*b*) La gent trotte-menu s'en vient chercher sa perte.
Un rat, sans plus s'abstient d'aller flairer autour.
C'étoit un vieux routier, il savoit plus d'un tour;
Même il avoit perdu sa queue à la bataille.
Ce bloc enfariné ne me dit rien qui vaille,
S'écria-t-il de loin au général des chats:
Je soupçonne dessous encor quelque machine.
Rien ne te sert d'être farine;
Car, quand tu serois sac, je n'approcherois pas.

B.

1. Criticise Voltaire as a dramatist, with special reference to the plays read.

2. Attempt some characterization of the genius of Moliére.

3. In what respects is La Bruyère to be regarded as original?

4. Explain briefly the following: Hôtel de Rambouillet, L'Académie, Le Cénacle, Le Théâtre des Cinq Auteurs, Mystères, L'Encyclopédie.

C.

[Only two of the following questions to be attempted.]

1. Account for the prevailing character of the literature of Cent. XVII.

2. Discuss with especial reference to Boileau the influence on literature of great critics.

3. What seems to be the tendency of French literature to-day?

4. In what way is "Poetry more philosophical than History?"

Queen's University Examinations: April, 1904.

HONOURS.

French.

Prose and Composition.

(Preliminary Honour Students to omit B.)

A. Traduisez en français :

It is said that history is not of individuals; that the proper concern of it is with broad masses of facts, with tendencies which can be analysed into laws, with the evolution of humanity in general. Be it so; but a science can make progress only when the facts are completely ascertained, and before any facts of human life are available for philosophy we must have those facts exactly as they were. You must have Hamlet before you can have a theory of Hamlet; and it is to be observed that the more completely we know the truth of any incident or group of incidents, the less it lends itself to theory. We have our religious historians, our constitutional historians, our philosophical historians; and they tell their stories each in their own way, to point conclusions which they have begun by assuming—but the conclusion seems plausible only because they know their case imperfectly. The writers of books are Protestant or Catholic, religious or atheistic, despotic or liberal; but natnre is neither the one nor the other, but all in turn. Nature is not a partisan, but out of her ample treasure-house she produces children in infinite variety, of which she is equally the mother, and disowns none of them.
FROUDE.

B. Traduisez en français :

The news that reaches us with regard to the position of affairs in the Far East to-day is unrelieved by any hopeful sign. Though there is as yet no word of a determination either way upon the disputed points by Russia, matters cannot, at this stage, linger on indefinitely in the present fashion. The tension is too great to permit it. A conclusion cannot be long postponed, and with every day that passes the situation is one of steadily deepening gravity. There may, or there may not, be a particularly ominous significance in the intelligence, which is made public on the authority of the Japanese Goverment, that the Russian warships have left Port Arthur, and in the simultaneous announcement that the Russians are moving troops iu the direction of the Ya-lu. This naval and military activity may be part of the manoeuvring for position preliminary to a commencement of war; but it is also possible that the Russians have purposely

timed it, as has not been unknown before, to synchronize with a critical and important stage in the conduct of their diplomacy.

The *Times*, Feb. 5, 1904.

C. Ecrivez une composition française sur *un* des sujets suivants:

(1) Le caractère français.

(2) Les causes de la Révolution française.

(3) "On se voit d'un autre oeil qu'on ne voit son prochain."

LAFONTAINE.

(4) L' étude des sciences physiques et naturelles.

Queen's University Examinations: April, 1904.

French—Unseen Translation.

(Preliminary and Intermediate Honour Students to omit C. D for Intermediate Honours only.)

Time allowed for Preliminary Honour Students, 2½ hours, for the rest 3 hours.

Traduisez en anglais les morceaux suivants :

A. Quand paraît sur la scène la douce et pure Desdemona, quand Othello échange avec elle les transports d'une confiante tendresse, quand ce serpent d'Iago rampe à côté de ces deux créatures si heureuses, si sereines à cette heure encore . . . quand déjà le venin, circulant dans les veines du More, enflamme son sang, fait jaillir l'éclair de sa prunelle et pénétrer dans son cœur le démon des vengeances . . . voyez dans l'amphithéâtre ces milliers de figures assises à la file les unes des autres, silencieuses et comme privées de vie; ce sont les enveloppes corporelles, les cadavres terrestres. Pendant qu'étrangers au drame qui se déroule ils chargent les gradins de leur masse immobile, les âmes s'en sont envolées: ardentes, agitées, frémissantes d'horreur ou saignantes de pitié, elles errent en désordre sur la scène; elles s'épanchent en flots de malédictions sur Iago; elles protègent de tout ce qu'elles ont de compassion et d'amour l'amante pure et menacée; et, par un frappant contraste, tandis que tout est repos et torpeur dans la vaste enceinte, tout est passion, mouvement, orage, dans l'invisible région où elles se pressent éperdues. Töppfer.

B. O Muses, accourez; solitaires divines,
Amantes des ruisseaux, des grottes, des collines?
Soit qu'en ses beaux vallons Nime égare vos pas;
Soit que de doux pensers, en de riants climats,
Vous retiennent aux bords de Loire ou de Garonne;
Soit que parmi les chœurs de ces nymphes du Rhône
La lune sur les prés, où son flambeau vous luit,
Dansantes vous admire au retoure de la nuit;
Venez. J'ai fui la ville aux Muses si contraire,
Et l'écho fatigué des clameurs du vulgaire.
Sur les paves poudreux d'un bruyant carrefour
Les poétiques fleurs n'ont jamais vu le jour.
Le tumulte et les cris font fuir avec la lyre
L'oisive rêverie au suave délire;
Et les rapides chars et leurs cercles d'airain
Effarouchent les vers qui se taisent soudain.
Venez. Que vos bontés ne me soint point avares.

Mais, oh! faisant de vous mes pénates, mes lares,
Quand pourrai-je habiter un champ qui soit à moi!

André Chénier.

C. Il me semblet, chier frére, que de ces quatre virtuiz fust aorneiz li primiers hom dès l'encomencement de sa creation, et vestiz de vestiment de salveteit, si cum retraitet li prophètes. En cez quatre virtuiz est tote li enterigneteiz de salveteit, ne sens èles totes ne puet estre nuls sals, car èles ne poroient mies estre virtuiz s'om dessevreivet l'une de l'altre. Li hom avoit receüt la virtuit de la Misericorde si cum sa warde et sa chambriére, por ceu qu'èle lo devancist et sevist, et qu'èle lo defendist et wardest tot per tot. Tel nurisce avoit Deus doneit a sa petitte creature, tel chambrière avoit il doneit a l'omme qui novelement estoit creez. Mais mestiers li estoit qu'il aüst ancor endoctrinour, si cum noble creature et raignavle, qui dovoit estre nurie si cum petiz enfes, et ne mies wardeie si cum beste. A ceu a faire ne poot om atrover plus convenavle maistre que la Veriteit mismes, qui ancune fie lo permonast a la conissance de la soverraine veriteit. St. Bernard.

D. C'est pour huit heures. Dans cinq minutes la toile va se lever. Machinistes, régisseur, garçon d'accessories, tout le monde est à son poste. Les acteurs de la première scène se placent, prennent leurs attitudes. Je regarde une dernière fais par le trou du rideau. La salle est comble; quinze cents têtes rangées en amphithéâtre, riant, s'agitant dans la lumière. Il y en a quelquesunes que je reconnais vaguement; mais leur physionomie me paraît toute changée. Ce sont des mines princées, des airs rogues, dogmatiques, des lorgnettes déjà braquées qui me visent comme des pistolets. Il y a bien dans un coin quelques visages chers, pâlis par l'angoisse et l'attente: mais combien d'indifférents, de mal disposés! Et tout ce que ces gens apportent du dehors, cette masse d'inquiétudes, de distractions, de préoccupations, de méfiances. . . . Dire qu'il va falloir pour dissiper tout cela, traverser cette atmosphère d'ennui, de malveillance, faire à ces milliers d'êtres une pensée commune, et que mon drame ne peut exister qu'en allumant sa vie à toutes ces paires d'yeux inexorables. . . . Je voudrais attendre encore, empêcher le rideau de se lever. Alphonse Daudet.

E. Mais le goût, dans son application aux beaux-arts, diffère singulièrement du goût dans son application aux convenances sociales: lorsqu'il s'agit de forcer les hommes à nous accorder une considération éphémère comme notre vie, ce qu'on ne fait pas est au moins aussi nécessaire que ce qu'on fait; car le grand monde est si facilement hostile, qu'il faut des agréments bien extraordinaires pour qu'ils compensent l'avantage de ne donner prise sur soi à personne: mais le goût en poésie tient à la nature, et doit être créateur comme elle; les principes de ce goût sont donc tout autres que ceux qui dépendent des relations de la société.

Madame de Stael.

2. What are the social theories set forth in "Les Miserables"?

3. Discuss the following statement: "Pierre Loti's sense for what is picturesque excels that of any of his contemporaries, and one has to go back to Chateaubriand to find a rival."

4. How far does V. Hugo's play "Cromwell" satisfy the theory he sets forth in the preface?

Queen's University Examinations: April, 1904.

FINAL HONOURS.

French Literature.

A.

1. Translate:

(*a*) L'Islande, assez lointaine, était apparue aussi, avec un air de vouloir s'approcher comme eux; elle montrait de plus en plus nettement ses grandes montagnes de pierres nues,—qui n'ont jamais été éclairées que de côté, par en desssous et comme à regret. Elle se continuait même par une autre Islande de coleur semblabe qui s'accentuait peu à peu;—mais qui était chimérique, celle-ci, et dont les montagnes plus gigantesques n'étaient qu'une condensation de vapeurs.

(*b*) La tempête sur les flots, le calme dans ta retraite; des hommes brisés sur des écueils, au pied de l'asile que rien ne peut troubler, l'infini de l'autre côté du mur d'une cellule; les fanaux agités des vaisseaux, le phare immobile du couvent; l'incertitude des destinées du navigateur, la vestale connaissant dans un seul jour tous les jours futurs de sa vie; d'une autre part, une âme telle que la tienne, ô Amélie, orageuse comme l'Océan; un naufrage plus affreux que celui du marinier.

2. [For Intermediate Honours only.] Translate:

(*a*) Voyant à Madrid que la république des letteres était celle des loups, toujours armés les uns contre les autres, et que livrés au mépris où ce risible acharnement les conduit, tous les insectes, les moustiques, les cousins, les critiques, les maringouins, les envieux, les feuillists, les libraires, les censeurs, et tout ce qui s'attache à la peau des malheureux gens de lettres, achevaient de déchiqueter et sucer le peu de substance qui leur restait; fatigué d'écrire, ennuyé de moi, dégoûté des autres, abïmé de dettes et léger d'argent; à la fin, convaincu que l'utile revenu de rasoir est préférable aux vains honneurs de la plume, j'ai quitté Madrid.

(*b*) Enfin je puis parler en liberté;
Je puis dans tout son jour mettre la vérité.
Quelque monstre naissant dans ce temple s'élève,
Reine: n'attendez pas que le nuage crève.
Abner chez le grand-prêtre a devancé le jour;
Pour le sang de ses rois vous savez son amour.
Et qui sait si Joad ne veut point en leur place

Substituer l'enfant dont le ciel vous menace,
Soit son fils, soit quelque autre.

3. [For Final Honours only.] Translate:

(*a*) Ne courons-nous pas rendre Hélène à son époux?
Depuis quand pense-t-on qu'inutile à moi-même
Je me laisse ravir une épouse que j'aime?
Seul, d'un honteux affront votre frère blessé
A-t-il droit de venger son amour offensé?
Votre fille me plut; je prétendis lui plaire;
Elle est de mes serments seule dépositare:
Content de son hymen, vaisseaux, armes, soldats,
Ma foi lui promit tout, et rien à Ménélas.
Qu'il poursuive, s'il veut, son épouse enlevée;
Qu'il cherche une victoire à mon sang réservèe;
Je ne connois Priam, Hélène, ni Paris;
Je voulois votre fille, et ne pars qu'à ce prix.

(*b*) Faible et fier ennemi, ma bonté t'encourage:
Tu me crois assez grand pour oublier l'outrage,
Pour ne m'avilir pas jusqu'à punir en toi
Un esclave inconnu qui s'attaque à son roi.
Eh bien! cette bonté, qui s'indigne et se lasse,
Te donne un seul moment pour obtenir ta grâce.
Je t'attends aux autels, et tu peux y venir:
Viens recevoir la mort, ou jurer d'obèir.
Gardes, auprès de moi vous pourrez l'introduire;
Qu'aucun autre ne sorte, et n'ose le conduire.
Vous, Narbas, Euryclés, je le laisse en vos mains.
Tremblez, vous répondrez de ses caprices vains.

B.

1. Give a short account of the following: Froissart, Villon, Maleherbes, Montesquieu, Fénélon.

2. Discuss French versification with reference to the changes introduced by the Romanticists.

3. What is the importance of Beaumarchais?

C.

[Only *three* questions to be attempted.

1. Compare "Eugénie Grandet" and "La Debâcle" as products of the Realistic movement.

FINAL HONOURS.

French.

Philology.

1. Turn into modern French :

(*a*) Es vos Rollanz sor son cheval pasmez,
Et Oliviers qui est a mort nafrez.
Tant at saigniét li oeil li sont troblét :
Ne loinz ne pres ne poet vedeir si cler
Que reconoisset nisun home mortel.
Son compaignon, com il l'at encontrét,
Sil fiert amont sor l'helme ad or gemét:
Tot li detrenchet d'ici que al nasel,
Mais en la teste ne l'at mie adesét.
Ad icel colp l'at Rollanz reguardét,
Si li demandet dolcement et soéf;
"Sire compaig, faites le vos de grét ?
Co 'st ja Rollanz, qui tant vos soelt amer.
Par nule guise ne m'avez desfidét."

(*b*) "Ja m'avez vos al prodhome envoié:
Malades est, il n'a si bel soz ciel.
Un hanap a, qui molt fait a proisier.
S'il et li vostre érent entrechangié,
Dex ne fist home nul de mére soz ciel,
Qui l'un de l'altre en poüst rentercier.
—Meine m'i, frére" li cuens li respondié.
Et cil respont: "Par mon chief, volentiers."
Li cuens Amiles ne s'i volt atargier,
Del campaignon se voldra acointier.
Tornez s'en ert el borc a Saint Michiel,
    Si n'en trovérent mie.

2. Translate into English :

Onques li rois de Cipre ne peut aultre cose impetrer au roy d'Engleterre, ne plus grant clarté de son voiage, fors tant que toutdis fu il liement et honourablement festiiés en disners et en grans soupers. Et avint ensi en ce termine que li rois David d'Escoce avoit a besongnier en Engleterre devers le roi, siques, quant il entendi sus son chemin que li rois de Cipre estoit a Londres, il se hasta durement et se prist moult priés de lui trouver. Et vint li dis rois d'Escoce si a point a Londres que encores n'estoit il point parti. Si se recueilliérent

et conjoïrent grandement cil doi roy ensamble, et leur donna de recief li rois d'Engleterre deux fois a souper ou palais de Wesmoustier. Et prist la li rois de Cipre congiét au roy d'Engleterre et a le roïne, qui li donnérent a son departement grans dons et biaus jeuiaus. Et donna li rois d'Engleterre au roy de Cipre une nef qui s'appelloit Kathrine, trop belle et trop grande malement.

3. What light is thrown on the history of the times by the German element in the language?

4. Give some account of the beginnings of the French Drama.

5. Trace the history of the following words:

Sieur, seigneur, soeur, avoué, avocat, plaignit, août, chambre.

[Only *three* of the following questions to be attempted.]

6. What were the causes of the disappearance of the Celtic language?

7. A brief sketch of the main differences between classical and vulgar Latin.

8. Give examples from French of analogy, metathesis, addition of sounds.

9. What is the leading principle of all phonetic change? Take your examples from questions 1, 2, and from other languages.

10. A short study of *La Chanson de Roland.*

Queen's University Examinations: April, 1904.

HONOURS.

French.

Literature.

A.

1. Translate into English, giving notes on the words in italics:

(*a*) Vous n'êtes pas, Sabine, encore où vous pensez:
Vous pouvez espérer, vous avez moins à craindre;
Mais il vous reste encore assez de quoi vous plaindre.
En vain d'un sort si triste on les veut garantir;
Ces cruels généreux n'y peuvent consentir:
La gloire de ce choix leur est si précieuse,
Et charme tellement leur âme ambitieuse,
Qu'alors qu'on les déplore ils s'estiment heureux,
Et prennent pour affront la pitié qu'on a d'eux.
Le trouble des deux camps souille leur renommée;
Ils combattront plutôt et l'une et l'autre armée,
Et mourront par *les mains qui leur font d'autre lois*,
Que *pas* un d'eux renonce aux honneurs d'un tel choix.

CHICANNEAU.

(*b*) Qui? je suis donc un sot, un voleur, à son compte?
Un sergent s'est chargé de la remercier,
Et je lui vais servir un plat de mon mètier.
Je serais bien fâchè que ce fût à refaire,
Ni qu'elle m'envoyât assigner la première.
Mais un homme ici parle à ma fille. Comment?
Elle lit un billet? Ah! c'est de quelque amant!
Approchons.

ISABELLE.

Tout de bon, ton maître est-il sincère?
Le croiroi-je?

L'INTIMÉ.

Il ne dort non plus que votre père.

(*Apercevant Chicanneau.*)

Il se tourmente; il vous.....fera voir aujourd'hui
Que l'on ne gagne rien à plaider contre lui.

(*c*) Pleins d'ardeur, ils repartent, enfoncant jusqu'aux genoux dans la neige fraîchement tombée, qui a englouti sous sa ouate immaculée les traces de la caravane; aussi Tartarin consulte sa boussole *tarasconnaise;* habituée aux chauds climats, elle est frappée de congélation depuis son arrivée en Suisse. L'aiguille joue aux quatre coins, agitée, hésitante; et ils marchent devant eux, attendant de voir se dresser tout à coup les roches noires des Grands-Mulets dans la blancheur uniforme, silencieuse, en pics, en aiguilles, en mamelons, qui le entoure, les éblouit, les épouvante aussi, car elle peut recouvir de dangereuses crevasses sous leurs pieds.

2. *For Preliminary Honours only.*

Translate into English :

(*a*) Les Anglais pensent profondément;
Leur esprit, en cela, suit leur tempérament;
Creusant dans les sujets, et forts d'expériences,
Ils étendent partout l'empire des sciences.
Je ne dis point ceci pour vous faire ma cour:
Vos gens, à pénétrer, l'emportent sur les autres;
Même les chiens de leur séjour
Ont meilleur nez que n'ont les nôtres.

(*b*) Je ne sais s'il y a eu là autrefois quelque îlot qui se sera écroulé et affaissé peu à peu, ou si quelque crue de la rivière aura entrainé et déposé dans cette passe des fragraments arrachés de le berge; ce qu'il y a de certain, c'est qu'un épais enchevêtrement de broussailles et de racines se cache sous ces eaux perfides, et y prospère. Je posai les pieds sur une des souches d'où paraissent surgir les buissons, et je parvins à délivrer Mervyn, qui, aussitôt maître de ses mouvements, retrouva tous ses moyens, et s'en servit sans retard pour nager vers la rive, m'abandonnant de tout son cœur.

(*c*) Il y a des gens qui parlent un moment avant que d'avoir pensé; il y en a d'autres qui ont une fade attention à ce qu'ils disent, et avec qui l'on souffre dans la conversation de tout le travail de leur esprit; ils sont comme pétris de phrases et de petits tours d'expression, concertés dans leur geste et dans tout leur maintien; ils sont puristes et ne hasardent pas le moindre mot, quand il devrait faire le plus bel effet du monde; rien d'heureux ne leur échappe, rien ne coule de source et avec liberté; ils parlent proprement et ennuyeusement.

3. *For Intermediate and Final Honours only.*

Translate into French :

(1) Souvent obéré et toujours besoigueux, il vivait d'ordinaire fort chichement dans son château, ne songeant qu'à y amasser l'argent qu'il allait dèpenser l'hiver à la ville. Le peuple, qui d'un mot va

souvent droit à l'idée, avait donné à ce petit gentilhomme le nom du moins gros des oiseaux de proie: il l'avait nommé le hobereau.

(2) Si le paysan n'avait pas possédé le sol, il eût été comme insensible à plusieurs des charges que le système féodal faisait peser sur la propriété foncière. Qu'importe la dîme à celui qui n'est pas fermier ? Il la prelève sur le produit du fermage. Qu'importe la rente foncière à celui qui n'est pas propriétaire du fonds ? Qu'importent même les gênes de l'exploitation à celui qui exploite pour un autre ?

(*c*) Explain the influence ascribed by De Tocqueville to the writers of the 18th century.

(*d*) How does De Tocqueville prove that the fundamental idea of the Revolution was not to destroy Religion?

B.

(*b*) Explain the terms "conseil du roi," "intendant," "censive," "corvée," "taille," "droit de chasse."

(1) What is meant by Dramatic Irony ? Illustrate from "Horace."

(2) Write a short criticism of "Tartarin sur les Alpes," giving what you consider the chief merits and defects of the work.

(2) Give, with illustrations, some characteristics of La Fontaine.

C.

(1) Translate into French :

(1) Between you and me I think he bears me a grudge.

(2) He is far cleverer than you think.

(3) Her Majesty the Queen of England and His Majesty the King of Italy have concluded a treaty.

(4) Are you the mother of this pretty blue-eyed girl ?

(5) More haste, less speed.

(6) He is a "bad lot." (7) Ill weeds grow apace.

(2) Explain in French :

(*a*) Il se souvient d'avoir rivé son clou.

(*b*) Bien lui prit.

(*c*) Il est né coiffé.

(*d*) Voilà l'homme dont elle est coiffée.
(*e*) Dîner par coeur.
(*f*) Il prend le chemin de l'hôpital.

(3) Translate into English :

(*a*) Cela est par trop fort.
(*b*) Ce n'est pas tout de boire.
(*c*) Que ne sait point ourdir une langue traîtresse!
(*d*) Cataplasmes, Dieu sait.
(*e*) Il a de la corde de pendu dans sa poche.

(4) The chief uses of the subjunctive in French.

Queen's University Examinations : April, 1904.

HONOURS.

French—Dictation.

Au signal donné par Genséric, la flotte vandale se range en demicercle, et les brûlots, détachés de leurs amarres, sont livrés à la mer et aux vents qui les portent sur la flotte romaine. Les premiers vaisseaux atteints par le feu le communiquent aux autres ; les voiles et les cordages s'enflamment, et la lueur d'un immense incendie éclaire tout à coup le golfe et la pleine mer. Cette lueur sinistre tire les Romains de leur assoupissement. En un instant, les ponts sont encombrés par une foule désordonnée ; on se presse, on se heurte, des cris de surprise et d'épouvante se mêlent au sifflement du vent et au pétillement du bois qui s'embrase. Dans ce mouillage trop étroit pour une si vaste flotte, les vaisseaux romains, serrés et comme collés les uns aux autres, ne peuvent se mouvoir et manœuvrer pour éviter le péril. En vain marins et soldats, s'encourageant au travail, repoussent avec des perches les brûlots que le flot amène, l'incendie éclate du côté où l'on ne songe pas à le combattre. Dominé par une peur aveugle, chacun pourvoit à son salut sans s'inquiéter de celui des autres ; tout vaisseaux romain atteint de la flamme est coulé bas sans plus de pitié qu'un brûlot ennemi.

THIERRY.

English—Anglo-Saxon.

1. Hwalt *th*a Oswold cyning his cymes fægnode, and hine arwur*th*lice underfeng his folce to *th*earfe, *th*æt heora geleafa wurde awend eft to Gode fram *th*am wi*th*ersæce *th*e hi to gewende wæron. Hit gelamp *th*a swa *th*æt se geleaffula cyning gerehte his witan on heora agenum gereorde thæs bisceopes bodunge mid bli*th*um mode, and wæs his *wealhstod* ; for *th*an *th*e he wel cu*th*e *Scyttysc*, and se bisceop Aidan ne mihte gebigan his spræce to Nor*th*hymbriscum gereorde swa hra*th*e *th*a git. Se biscop *th*a ferde bodigende geond eall Nor*th*hymbra land geleafan and fulluht, and *th*a leode gebigde to Godes geleafan, and him wel gebysnode mid weorcum symle, and sylf swa leofode swa swa he lærde o*th*re. He lufode forhæfednysse and halige rædinge, and iunge men*n* teah georne mid lare, swa *th*æt ealle his geferan *th*e him mid eodon sceoldon sealmas leornian o*thth*e sume rædinge swa hwider swa hi ferdon *th*am folce bodigende. Seldon he wolde ridan, ac si*th*ode on his fotum, and munuclice leofode betwux *th*am læwedan folce mid mycelre gesceadwisnysse and so*th*um mægnum.

(*a*) Translate.

(*b*) Parse and give the principal parts of *underfeng, awend, bodigende, leofode, teah.*

2. Give an account of King Oswald's life with approximate dates.

3. Conjugate fully *weaxan* (grow) and *sellan* (give).

4. Give a four column analysis (Root, Immediate Origin, Transitional and Modern English forms) of *ic Eoferwic, munuc, cniht, gebroht, gewunnen, genoh.* Explain all processes of change.

5. Turn the following sentences into Anglo-Saxon :

(1) Many poets arose after him in the English nation but none could compose religious poems like him.

(2) Joseph said to his brother, Make known to my father all the things which you have seen in Egypt.

(3) And he told King Edward how he had been bound and sent to Gloucester.

6. Unseen passages for translation :

(*a*) Swa *th*es middan geard
ealra dogra gehwam dreose*th* and fealle*th*
for *th*on ne maeg weor*th*an wis wer, aer he age
wintra dæl in woruldrice. —*The Wanderer.*

(*b*) Ac utan don swa us *th*earf is, warnian us be swilcan ; and so*th* is *th*aet ic secge, wirsan daeda we witan mid Englum sume gewordene thonne we mid Bryttan ahwar gehierdan ; and *th*y us is *th*earf micel *th*æt we us be*th*encan and wi*th* God sylfne thingian georne. —*Wulfstan's Address.*

Queen's University Examinations: April, 1904.

INTERMEDIATE AND FINAL HONOURS.

English.

FIRST PAPER.

I.

1. (*a*) Compare Wordsworth's manner of describing and interpreting nature with that of Cowper.

(*b*) State and explain the principle traits in his *Character of the Happy Warrior.*

(*c*) Give his criticism of the Poetic Diction of the 18th century poets, and discuss Wordsworth's own style as illustrated by the following poems: *Lines Written near Tintern Abbey, Simon Lee, Kilchurn Castle.*

2. (*a*) In what connection do the following passages from *Sartor Resartus* occur? Explain their significance carefully.

"Society is founded upon cloth."

"It is but the common lot in this era. Not having come to spiritual majority prior to the *Siecle de Louis Quinze*, and not being born purely a Loghead thou hadst no other outlook."

"Well did the Wisest of our time write: 'It is only with Renunciation that Life, properly speaking, can be said to begin.'"

"For the rest in what year of grace such Phoenix-cremation will be completed, you need not ask."

"On what ground shall one, that can make Iron swim come and declare that therefore he can teach Religion?"

(*b*) Give a summary of the main points in the chapter on Pedagogy.

(*c*) "Carlyle is at once the severest critic of his age and the profoundest contributor to any optimism in it which can be distinguished from a boastful and contented materialism." Explain and discuss.

II.

3. " Homer is rapid in his *movement.* Homer is plain in his *words and style.* Homer is simple in his *ideas.* Homer is noble in his *manner.*"

Use the same method of analysis for a critical estimate of (1) Tennyson and (2) Byron, in each case illustrating your views by references to the works prescribed in the Calendar.

III.

4. Explain the following extracts with reference to the context, mentioning from what works they are taken :

Flowers cast upon the car which bore the freight,
Through old streets named afresh from the event.

Like a sea beast crawled forth that on a shelf
Of rock or sand reposeth, there to sun itself.

Madman! wherefore flout
The silent-blessing fate, warm cloistered hours,
And show to common eyes these secret bowers ?

Perhaps it was a bower beneath whose leaves
The violets of five seasons re-appear
And fade, unseen by any human eye.

I made no vows, but vows
Were then made for me; bond unknown to me
Was given, that I should be, else sinning greatly
A dedicated spirit.

Saves money, spends it, owns the worth of things
Ginlio Romano's pictures, Dowland's lute;
Enjoys a show, respects the puppets, too.

My child, we still must think, when we
That ampler life together see,
Some true result will yet appear
Of what we are, together, here.

The great events with which old story rings
Seem vain and hollow; I find nothing great:
Nothing is left which I can venerate.

Queen's University Examinations: April, 1904.

INTERMEDIATE AND FINAL HONOURS.

English.

SECOND PAPER.

1. (*a*) Nevertheless, I never take a gun or a fishing-rod in my hands without feeling that I have in the ground of my nature the self-same seeds which, fostered by circumstances, do so much to make the Barbarian ; and that, with the Barbarian's advantages, I might have rivalled him. Place me in one of his great fortified posts, with these seeds of a love for field-sports sown in my nature, with all the means of developing them, with all pleasures at my command, with most whom I met deferring to me, everyone I met smiling on me, and with every appearance of permanence and security before me and behind me,—then I too might have grown, I feel, into a very passable child of the established fact, of commendable spirit and politeness, and, at the same time, a little inaccessible to ideas and light.

(*b*) A not large room, with a single counter at the further side, Nothing shown on the counter. Two confidential attendants behind it, and—it might possibly be Mr. Bautte !—or his son—or his partner—or anyhow the Ruling power—at his desk beside the back window. You told what you wanted : it was necessary to know your mind, and to be sure yon *did* want it ; there was no showing of things for temptation at Bautte's. You wanted a bracelet, a brooch, a watch—plain or enamelled. Choice of what was wanted was quietly given. There were no big stones, nor blinding galaxies of wealth. Entirely sound workmanship in the purest gold that could be worked ; fine enamel for the most part, for colour, rather than jewels ; and a certain Bauttesque subtlety of linked and wreathed design, which the experienced eye recognized when worn in Paris or London. Absolutely just and moderate price ; wear,—to the end of your days. You came away with a sense of duty fulfilled, of treasure possessed, and of a new foundation to the respectability of your family.

Illustrate from the above passages (1) the qualities of thought, (2) the qualities of style which characterize the respective authors.

2. (*a*) Doing the King's work all the dim day long,
In his old coat and up to knees in mud,
Smoked like a herring, dining on a crust,—

And, now the day was won, relieved at once!
No further show or need for that old coat,
You are sure, for one thing! Bless us, all the while
How sprucely we are dressed out, you and I!
A second, and the angels after that.

(*b*) Ah! replied Philip, Alas! the noted phrase of the Prayer-book,
Doing our duty ia that state of life to which God has called us.
Seems to me always to mean, when the little rich boys say it,
Standing in velvet frock by mamma's brocaded flounces,
Eyeing her gold-fastened book and the watch and chain at her bosom,
Seems to me always to mean, Eat, drink, and never mind others.
Nay, replied Adam, smiling, so far your economy leads me,
Velvet and gold and brocade are nowise to my fancy.
Nay, he added, believe me, I like luxurious living
Even as little as you, and grieve in my soul not seldom,
More for the rich indeed than the poor, who are not so guilty.

Characterize the rhythmical movement in both these passages. Compare the two measures in respect of flexibility, ease and variety of movement, melody and dignity. Scan passage (*b*) and criticize its metrical technique.

3. State from what poems the following passages are taken and show how they illustrate the qualities of the author both in style and thought.

(*a*) I have not loved the world, nor the world me,—
But let us part fair foes; I do believe,
Though I have found them not, that there may be
Words which are things,—hopes which will not deceive,
And virtues which are merciful, nor weave
Snares for the failing: I would also deem
O'er others' griefs that some sincerely grieve;
That two or one, are almost what they seem,—
That goodness is no name, and happiness no dream.

(*b*) How, ever, when she will'd, her spirit went;
Whether to faint Elysium, or where
Down through tress-lifting waves the Nereids fair
Wind into Thetis' bower by many a pearly stair
Or where God Bacchus drains his cups divine,
Stretched out, at ease, beneath a glutinous pine.

(*c*) The dragon's wing, the magic ring,
I shall not covet for my dower,
If I along that lowly way
With sympathetic heart may stray,
And with a soul of power.

(*d*) O wind that o'er my head art flying
The way my friends their course did bend,
I should not feel the pain of dying,
Could I with thee a message send;
Too soon, my friends, ye went away :
For I had many things to say.

4. Write *brief* precise answers to the following:

(1) Milton's influence on the style and structure of Wordsworth's sonnets.

(2) The canon of propriety in idiom and diction as applicable to Carlyle and Browning.

(3) Distinguish the characteristic qualities of epic blank verse in Milton, Wordsworth and Tennyson.

The following questions are for Extra-mural students only:

5. (*a*) Explain the various aspects and significance of the Renaissance movement with reference to Browning's *Fra Lippo Lippi*, *The Bishop Orders his Tomb*, *The Grammarian's Funeral.*

(*b*) Explain precisely the meaning of the following extracts:

(1) Yea, this in him was the peculiar grace
(Hearten our chorus)
That before living he'd learn how to live.

(2) This high man with a great thing to pursue
Dies ere he knows it
That low man goes on adding one to one
His hundred's soon hit.

(3) Quite from the mark of painting, bless us all !
Faces, arms, legs, and bodies like the true
As much as pea and pea.

(4) Aha ! *Elucescebat* quoth our friend ?
No Tully, said I, Ulpian at the best !

6. Write notes on the following subjects, making your answer strictly relevant to the question :

Is Browning's Cleon an adequate representation of the intellectual result of Greek civilisation ?

What appear to be the fundamental grounds of Browning's optimism ? Support your views by distinct references to his works.

Queen's University Examinations: April, 1904.

FINAL HONOURS.

English.

[Please answer with precision and to the point. If you do not understand the question, avoid discoursing at large.]

1. Write brief notes on the following subjects:

The Toccata of Galuppi as an estimate of Venetian life.

The qualities of Shelley's lyrical verse as compared with that of Tennyson.

Emerson's style, its strength and its defects.

2. (*a*) Discuss the conception of history, of its aim and ideal, given in Carlyle's chapter *Anti-Dryasdust.* What is the fundamental point in Carlyle's criticism of history as written by 'Dryasdust?' How does he illustrate it by the myth of Balder? Show how his conception applies to his own historical work as an interpreter of Cromwell and Puritanism.

(*b*) Illustrate the character of his historical work by his treatment of the history of the *Petition of Right* in his introductory chapter. What are the aspects of the case he puts in the foreground? Notice some of his peculiar methods.

3. (*a*) Explain Ruskin's classification of systems of architectural ornament.

(*b*) Give and explain Ruskin's division of artists into three great classes and his subdivision of the greatest class. Where does he place Angelico, Tintoret, Michael Angelo, Turner? Apply this classification to the following names in literature, explaining your reasons in each case: Milton, Swinburne, Freeman, Scott, Shakespeare, Byron, Keats, Shelley, Carlyle, Wordsworth, Browning, Tennyson, Baudelaire, Emerson, Zola.

(*c*) Give Ruskin's tests for deciding whether a building of the Gothic style be good of its kind or not.

(*d*) Compare Ruskin's style in this chapter (*The Nature of Gothic*) with his style in the description of Geneva.

4. Give a brief outline of Chaucer's *Book of the Duchess.* What historical event does it embody? Illustrate briefly from it the characteristics of the French court poetry of the time. Give the principal traits in Chaucer's description of the Duchess and quote as much of it as you can.

Characterize Chaucer's management of octosyllabic verse (1) as compared with that of his English predecessors, (2) as compared with that of Scott.

Explain the following extracts:

(*a*) I holde hit be a sicknesse
That I have suffred this eight yere,
And yet my bote is never the nere.

(*b*) Ne nat scarsley Macrobeus,
He that wrot al thavision
That he mette, king Scipion,
The noble man, the Affrican.

(*c*) May noght make my sorwes slyde,
Nought the remedies of Ovyde;
Ne Orpheus, god of melodye,
Ne Dedalus with playes slye;
Ne hele me may phisicien
Noght Yyocras, ne Galien.

(*d*) And bidde him faste, anoon that he
Go hoodles to the drye se,
And come hoom by the Carrenare.

(*e*) Or the false Genelon
He that purchased the treson
Of Rowland and of Olivere.

(*f*) Hit stondeth thus: Your contrair, Crueltee,
Alleyed is ageynst your regalye
Under colour of womanly Beautee.

(*g*) 'No fors,' quod I, 'hit is no nede;
I leve as wel, so God me spede,
Hem that wryte of this matere,

As though I knew her places here ;
And eek they shynen here so brighte,
Hit shulde shenden al my sighte,
To loke on hem.'

For Extra-murals Only.

5. (*a*) Explain the grounds upon which Arnold says that " Aristocracies, these children of the established fact, are for epochs of concentration."

(*b*) What according to Arnold are the main intellectual defects of the middle-classes ?

(*c*) What does Arnold mean by the British form of Quietism ? "

(*d*) Give examples from *Culture and Anarchy* of Arnold's effective irony in the treatment of an opponent or critic.

(*e*) Give the substance of Arnold's final estimate of Heine and of Joubert's judgment of Voltaire.

Queen's University Examinations: April, 1904.

HONOURS.

History.

FIRST PAPER.

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1. What were the power of the Witenagemote?

2. In regard to the tenure of land Stubbs says, "No legislation turned the free-owner into the feudal tenant." How was it accomplished? Explain Stubbs' view.

3. Explain the feudal tendency of Canute's earldoms.

4. What was the Conqueror's policy in regard to feudal institutions?

5. Explain the mode of the enfranchisement of a villanus. In what sense may a borough be regarded as exercising the right of enfranchisement?

6. State the functions of the Curia Regis, and the development of these functions.

Queen's University Examinations: April, 1904.

HONOURS.

History.

SECOND PAPER.

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1. In regard to the Assize of Arms Stubbs says, "In this document the King brings together the two very ancient methods of ensuring peace and defence." To what does he allude?

2. Explain the principles involved and especially the words in italics:

> Si quis baronum, comitum meorum sive aliorum qui de me tenent, mortuus fuerit, haeres suus non *redimet* terram suam sicut faciebat tempore fratris mei, sed justa et legitima *relevatione relevabit* eam. Similiter et homines baronum meorum justa et legitima relevatione relevabunt terras suas de dominis suis.—*Stubbs' Select Charters* (*Henry I.*)

3. Criticise the statute of Provisors.

4. To what constitutional questions did the admission of clerical Proctors in Parliament give rise?

5. Criticise Rousseau's statement, "Every representative government is in its nature illegitimate."

6. Explain Pascal's saying, "Plurality which does not reduce itself to unity is confusion. Unity which is not the result of plurality is tyranny."

7. How does Guizot distinguish between representative government and the government of the majority?

8. What is Mill's criterion of a good form of government?

9. What is Mill's distinction between a true and false democracy?

Queen's University Examinations: April, 1904.

HONOURS.

History.

THIRD PAPER.

1. What were the general results, political, ecclesiastical, parochial, of the confiscation of the Monasteries?

2. Compare the views of Hooker and Laud. In what point did they agree?

3. Point out in what respects the attempt made by Charles I. to arrest the five members of the House of Commons was a breach of the privileges of Parliament, and of the liberty of the subject.

4. Give a short history of Cabinet Government. How was it affected by the Place Bill of 1743?

5. To what constitutional questions did the impeachment of Lord Danby give rise?

HONOURS.

History.

FOURTH PAPER.

1. State May's views of the origin of party government in England and the principles involved.

2. What are the relations of the Cabinet to the Sovereign, to the House of Lords, and to the House of Commons? State briefly.

3. State the terms of Fox's Libel Bill. What was determined as to the right of juries in the case of libel?

4. What are the executive and judicial powers of the Senate of the United States?

5. Bryce says that "The Senate constitutes a link between the State Government and the National Government." How does it do this?

6. What are the duties and the functions of the Supreme Court in the United States?

7. Bourinot says that the principles of the constitution of Canada rest on the written and the unwritten law. Explain his meaning.

8. On what grounds may the Governor-General-in-Council disallow Provincial Acts?

Queen's University Examinations: April, 1904.

HONOURS.

Philosophy.

FIRST PAPER.

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1. "We are directly conscious of changes in consciousness, and these take place only in time; therefore time is real." How does Kant meet this objection to the transcendental ideality of time?

2. "A judgment is simply the way in which given ideas are brought to the objective unity of apperception." Show the relation of this statement to the deduction of the categories.

3. "The Analogies of Experience are concerned only with the *existence* of objects of sense and their *relations* to to one another." On what ground does Kant distinguish the Analogies from the Mathematical Principles?

4. State shortly the Second Antinomy, and give Kant's solution of it. How does Hegel criticize and solve it?

5. What are the three ways in which Kant formulates the Categorical Imperative? Estimate their relative value.

6. What use does Kant make of the idea of Final Cause? Examine his doctrine that it has only a "regulative" value.

Queen's University Examinations: April, 1904.

HONOURS.

Philosophy.

SECOND PAPER.

(Only five of these questions are to be done.)

1. Die völlige Umänderung, welche die philosophical Denkweise seit etwa fünf und zwanzig Jahren unter uns erlitten hat, hat bisher noch wenig Einfluss auf die Gestalt der Logik gehabt.

Comment upon the development to which Hegel refers in this extract.

2. Ganz ohne Rücksicht auf metaphysische Bedeutung wird dasjenige betrachtet, was gemeinhin unter Logik verstanden wird.

Explain this criticism, and show the new form which Logic takes in Hegel.

3. Die Kritik der Formen des Verstandes hat das Resultat gehabt, dass diese Formen keine Anwendung auf die Dinge an sich haben.

Estimate the value of this criticism, and compare Hegel's view and treatment of the categories with that of Kant.

4. In dem Fassen des Entgegensetzten in seiner Einheit, oder des Positiven in Negativen besteht das Speculative.

State shortly the method of Hegel, and illustrate it from the dialectic of the first category.

5. Das reine Wissen ist die letzte, absolute Wahrheit des Bewusstseins.

What is the relation of Hegel's Logik to his Phänomenologie des Geistes?

6. Die Bestimmung des Menschen ist die denkende Vernunft.

Explain, and trace shortly the development from Bestimmung, through Beschaffenheit, to Grenze.

7. Weil der Stein nicht denkt, nicht einmal empfindet, ist seine Beschränkheit *für ihn* keine Schranke.

Show the different meaning of Schranke as applied respectively to the inorganic, the feeling and the thinking being.

8. Contrast the Schlechtunendliches with the wahrhaft Unendliches.

9. Der leibnitzische Idealismus liegt mehr innerhalb der Grenze des abstracten Begriffes.

Explain this criticism.

10. Give a summary of the steps by which Quality passes into Quantity.

HONOURS.

Philosophy.

THIRD PAPER.

1. "Freedom consists in choice." Discuss the question of freedom, dealing especially with the theory contained in the above statement.

2. Distinguish "evil" from "crime." Give Hegel's view with comments.

3. Consider briefly the relation of Hegel's ethical views to (*a*) Hedonism, (*b*) Altruism, (*c*) Intuitionism."

4. How does Hegel conceive of "feeling"? What form does his view take in the *Philosophy of Right?* Examine the point.

5. What is the highest practical idea? Show how far your answer is in agreement with Hegel's conception of the ethical order.

HONOURS.

Philosophy.

FOURTH PAPER.

1. "The plot, then, is the first principle, and, as it were, the soul of a tragedy; character holds the second place." Examine Aristotle's conception of the relation between plot and character in the drama.

2. State and interpret Aristotle's view with regard to the aim and function of tragedy. Does tragedy give us an adequate representation of life?

3. "We think that the hero may be both very good and very bad, that is to say, that he must above all things be great." Compare Bosanquet's conception of the ideal tragic hero with that of Aristotle. Is there any contradiction between the moral and aesthetic judgments?

4. The beautiful object through its very finitude suggests infinity. Strange that it should be so! . . . I cannot fully explain the matter."—(Palmer.) Analyse the consciousness of beauty, showing the reason for this strangeness, and considering, especially, whether it is inexplicable.

5. Give a definition of "ugliness," mentioning objections to your view, and meeting them as far as you can.

6. Discuss the nature of "humour."

Queen's University Examinations: April, 1904.

HONOURS.

Philosophy.

FIFTH PAPER.

1. "Whatever is rejected as appearance is, for that very reason, no mere nonentity. It must belong to reality."

Is there any ambiguity in the term "appearance?" If so, how does it affect the doctrine here stated?

2. "Thought being a judgment, we say that the predicate is ever the same as the subject."

Test the truth of this principle by applying it to Bradley's doctrine that "the Absolute is self-consistent."

3. "The one-sided emphasis of error will contribute, we know not how, to the harmony of the Absolute."

How far do you regard this view of error as true?

4. "Space and time give no ground for the assertion that our Absolute is not possible."

How does Bradley seek to establish this doctrine? Is his solution satisfactory?

5. "When we turn from mere ideas to sensation, we experience in the 'this' a revelation of freshness and life."

Can the contrast between "mere ideas" and "sensation" be consistently maintained?

6. "Axioms are the outcome of a will-to-believe, which has been rewarded for its audacity by finding that the world granted what was demanded."

Examine this saying of Schiller.

PRELIMINARY HONOURS.

Political Science.

FIRST PAPER.

1. Compare the Roman and modern conceptions of equity.

2. Trace the relation between Roman wills and conveyances.

3. Compare the positions of the family in the ancient and modern state, with special reference to the relations of the members of the family to each other and to the state.

4. Discuss Maine's criticism of the common theories as to the origin of property.

5. Sketch the development of contract in Roman law.

Queen's University Examinations: April, 1904.

PRELIMINARY HONOURS.

Political Science.

SECOND PAPER.

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1. How are the subjective and objective aspects of labour related to each other?

2. Discuss the advantages and drawbacks of the joint stock system of carrying on manufacturing industries.

3. What are the chief conditions which have at once permitted and encouraged the modern cosmopolitan range of investment for capital?

4. Critically examine the grounds on which, during the first half of the nineteenth century, the economic future of Canada was regarded as necessarily different from that of the adjoining States.

5. What were the chief influences affecting the Canadian grain trade between 1791 and 1846?

6. What was the attitude and policy of the French-Canadian party in Lower Canada, as indicated in the general report on Canada in 1828?

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Political Science.

FIRST PAPER.

1. Compare the Roman and modern conceptions of equity.

2. Trace the relation between Roman wills and conveyances.

3. Sketch the developement of contract in Roman law.

4. Distinguish the nature and sphere of civil law as compared with other forms of law.

5. What is the nature of adminstrative law and how is it related to constitutional law? Illustrate with reference to Canadian conditions.

6, Discuss the nature and basis of antecedent international law. How far may the principles of international law be said to apply to such countries as Japan, China, Tibet?

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Political Science.

SECOND PAPER.

1. What was the function of the Senate in the Roman political system? How do its operations illustrate the peculiarities of the Roman as compared with the later national governments of Europe?

2. Account for the differences between France and Germany in the development of Feudalism and in the process of national unification.

3. Discuss the significance of the rising individualism in modern progressive states.

4. With the increasing tendency of population to migrate from one state to another, what is likely to be the effect upon citizenship, national ideals, and international relations?

5. Critically examine Bluntschli's conception of the sovereignty of the state and the proper organs of its expression.

6. Discuss Mill's arguments in favour of the representation of minorities.

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Political Science.

THIRD PAPER.

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1. What are the chief conditions which have at once permitted and encouraged the modern cosmopolitan range of investment for capital?

2. Discuss the mutual relations of the selling prices of goods and the rates of wages paid for their production.

3. What conclusions as to the general movements of prices may be drawn from Mr. Wells' studies of the prices of various commodities? Compare the views of Wells and Scott as to the effect on prices of the quantity of gold in exchange.

4. Estimate the chief factors in determining the direction and value of foreign exchanges.

5. What was the attitude and policy of the French-Canadian party in Lower Canada, as indicated in the general report of 1828?

6. Critically examine the grounds on which, during the first half of the nineteenth century, the economic future of Canada was regarded as necessarily different from that of the adjoining States.

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Political Science.

FOURTH PAPER.

1. " As soon as the land of any country has all become private property, the landlords, like all other men, love to reap where they have never sowed, and demand a rent for its natural produce."—Smith. Examine this statement in the light of American experience.

2. " Does the law, that permanent value is proportioned to cost of production, hold good between commodities produced in distant places, as it does between those produced in adjacent places?" Discuss the answer which Mill gives to this question.

3. " Civilized peoples are insisting that the resources of the earth shall be utilized to its fullest extent; they resent the claim of any barbaric or half-civilized people to retain territory when they are careless about turning it to good account."—Cunningham. Critically examine the rights thus claimed for " civilized peoples."

4. What were the chief characteristics of the transition in economic life from ecclesiastical to secular control?

5. How is the basis of taxation affected by the development of modern economic interests and especially the expansion of capitalistic investment?

6. Discuss the range of the right of municipalities to tax general corporations operating within their limits.

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Political Science.

FIFTH PAPER.

1. Consider how far Carlyle's argument from the past to the present is in accordance with the legitimate use of the historical method.

2. Critically examine Carlyle's attitude towards democracy.

3. Point out the true and false features in Arnold's criticism of British individualism.

4. Estimate the social and political significance of Nihilism in Russia.

5. Discuss the feasibility of compulsory arbitration for the settlement of labour disputes.

6. What position does Malthus occupy in the history of Economics?

Queen's University Examinations: April, 1904.

Modern Synthetic Geometry.

1. If A, B, C, be a range of three, and AP, BQ, CR be tangents to any circle, then $AP^2\cdot BC + BQ^2\cdot CA + CR^2\cdot AB = -AB\cdot BC\cdot CA$.

2. The joins of the vertices of a triangle with the points of contact of an escribed circle are concurrent.

3. Show that the locus of a point, at which, two fixed segments of a line subtend equal angles, is a circle.

4. Prove that the orthocentre of a triangle is its polar centre; and that its polar radius is $d\sqrt{-\cos A \cos B \cos C}$.

5. If two circles touch three circles similarly, the radical axis of the two is an axis of similitude of the three; and the radical centre of the three is a centre of similitude of the two.

6. A line is cut harmonically by a point, a circle, and the polar of the point with respect to the circle.

7. Show that the four circles which touch the sides of a triangle can be touched by a fifth circle.

8. In any quadrangle circumscribed to a circle, the diagonals and the chords of contact are concurrent.

9. Within a given circle inscribe a triangle to have its sides passing through three given points.

Queen's University Examinations: April, 1904.

HONOURS.

Algebra I.

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1. Express $a_0x^3+3a_1x^2+3a_2x+a_3$ as a function of $x-h$. Employ this principle to approximate to a root of $x^3+x^2-4x-1=0$.

2. (*a*) Prove the binomial theorem for negative exponents.

(*b*) Find to the nearest cent the value of \$100 compounded every moment for 10 years at 5% per annum.

3. (*a*) Prove the principle of undetermined coefficients for a function of infinite degree.

(*b*) Expand $\dfrac{x}{e^x-1}$ in powers of x.

4. Prove from the principles of continued fractions that the value of $\sqrt{13}-3$ lies between $\dfrac{109}{180}$ and $\dfrac{720}{1189}$

5. Find the nth term of the recurring series $1+5x+18x^2+62x^3+\ldots\ldots$

6. Sum the series :

(*a*) $2\cdot4\cdot6+3\cdot5\cdot7+4\cdot6\cdot8+\ldots\ldots$ to n terms.

(*b*) $\dfrac{1}{1\cdot2\cdot3}+\dfrac{1}{2\cdot3\cdot4}+\dfrac{1}{3\cdot4\cdot5}+\ldots\ldots$ to n terms and to infinity.

(*c*) $-2+3+20+55+114+\ldots\ldots$ to n terms.

7. Develope any important test for the convergency of series; and apply it to the expansion of $(1-x)^{-n}$.

Find the eliminant of the equations $xx_1+yy_1-zr^2=0$, $xx_2+yy_2-zr^2=0$, and $xx_3+yy_3-zr^2=0$ in determinant form. Thence show how to find the eliminant of n homogeneous linear equations with n variables.

Queen's University Examinations : April, 1904.

HONOURS.

Trigonometry I.

1. (*a*) Develope the formula $s=r\theta$.

(*b*) *ABCD* is a square of side 6 ; and circles are drawn with centres *A*, *B*, *C*, and *D*, each with radius 6. These intersect at *E*,*F*,*G*,*H* within the square and at *E*,′*F*′,*G*,′*H*′ without the square, forming two curved quadrilateral figures *EFGH* and *E*′*F*′*G*′*H*′. Find the area of *EFGH*, and the perimeter of *E*′*F*′*G*′*H*′.

2. By means of a geometrical construction, find sin 15° and cos 15°.

3. Factor $\Sigma\cos^2 A-2\cos A.\cos B.\cos C-1$; and simplify the result for the case where $A+B+C=\pi$.

4. In any triangle find an expression for $\sin\frac{A}{2}$ in terms of the sides.

5. (*a*) Prove the formulae $R=\frac{abc}{4\triangle}$ and $r=4R\sin\frac{A}{2}.\sin\frac{B}{2}.\sin\frac{C}{2}$. Find *R* and *r* in the triangle whose sides are 13, 14, 15.

(*b*) *I* is the incentre, *O* is the circumcentre, and *P* is the orthocentre of the triangle *ABC*. Find the sides of the triangle *IOP*, and the median from *I*. Simplify the result for the triangle of (*a*).

6. Eliminate θ from the equations $(a+b)\tan(\theta-\varphi)=(a-b)\tan(\theta+\varphi)$ and $a\cos2\varphi+b\cos2\theta=c$.

7. Show that

$$\cos\theta + \cos(\theta+\alpha) + \cos(\theta+2\alpha) + \ldots\ldots + \cos(\theta+\overline{n-1}\,\alpha)$$

$$= \frac{\cos\left(\theta+\frac{n-1}{2}\alpha\right).\sin\frac{n\alpha}{2}}{\sin\frac{\alpha}{2}}.$$

8. A man walking along a road finds that α is the greatest angle subtended by two distinct objects on the same side of the road. From the place where this angle is observed he walks a distance d along the road and finds that he is now in line with the objects, and that this line makes the angle β with the road. Show that the distance between the objects is $\frac{2d\sin\alpha.\sin\beta}{\cos\alpha+\cos\beta}$.

PRELIMINARY HONOURS.

Conics I.

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1. Find (a) the coordinates of the point which divides the join of two given points in a given ratio.

(b) The ratio in which the join of (1,2) and (3,4) is cut by $5x+6y+7=0$.

2. Find (a) the distance of $(x,'y')$ from $ax+by+c=0$.

(b) The centre of the inscribed circle of the triangle whose sides are $x-y=0$, $x+y=0$, and $y=b$.

3. Find (a) the angle between the lines $y=mx+b$, $y=m'x+b'$.

(b) The line through the intersection of $x+y+2=0$, $3x-2y+6=0$ and perpendicular to $4x-y+5=0$.

4. A and B are two fixed points. AB is 6 and P is any point such that $2AP^2+3BP^2=100$. Show that the locus of P is a circle and find its centre and radius.

5. In the parabola $y^2=4ax$ show that

(a) The m equation of the tangent is $y=mx+a/m$.

(b) The locus of the intersection of perpendicular tangents is the directrix.

6. (a) Show that the point P ($a\cos\varphi$, $b\sin\varphi$) is on the ellipse $x^2/a^2+y^2/b^2=1$ and that if D is ($-a\sin\varphi$, $b\cos\varphi$) CP and CD are conjugate diameters.

(b) Find the locus of the intersection of the tangents at P and D.

Queen's University Examinations: April, 1904.

HONOURS.

Synthetic Solid Geometry.

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1. Define Corner and Reciprocal Corner. Prove the reciprocal property.

2. Show that the medians of a tetrahedron are concurrent in a point which divides each median in the ratio 3 : 1.

3. Prove that in the regular tetrahedron

$$R^2 : p^2 : r^2 :: 9 : 3 : 1.$$

4. Prove that the Prismoidal formula applies to the zone of a sphere and deduce the volume of a zone for which $r=8, r'=b, h=2$.

5. A segment of a circle radius c is revolved about its chord $2c \sin a$. Prove that it generates a volume $\frac{2}{3}\pi c^3 \{\sin a(2+\cos^2 a)-3a\cos a\}$.

6. Prove by projection (a) that if a parallelogram circumscribes an ellipse and has its sides parallel to conjugate diameters its area and the sums of the squares of its sides are constant, (b) the harmonic properties of a complete quadrilateral.

7. Show that in a spherical triangle $A+B$ and $a+b$ are of the same affection.

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Algebra II.

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1. If $\sqrt{N}$ is converted into a continued fraction prove that the recurrence begins with the second partial quotient and ends with one double the first.

2. Solve in positive integers $x^2-17y^2=-1$.

3. Find the nth term and the sum of n terms of the series $4+13+35+94+262+755$.

4. Sum to infinity $1^3+\frac{2^3}{1!}+\frac{3^3}{2!}+\frac{4^3}{3!}+\dots\dots$

5. If p is a prime prove that $1+(p-1)!$ is divisible by p.

6. Show that the equation $f(n)=(u_{n-1}+u_n x)f(n-1)-u_{n-2}\,u_n f(n-2)$ is satisfied by $u_1u_2u_3\dots\dots u_{n-1}$ and by $u_1+u_2x+\dots\dots u_nx^{n-1}$ and deduce the expression for the series as a continued fraction.

7. Prove that $\frac{2}{2-}\,\frac{3}{3-}\,\frac{4}{4-}\dots\frac{n+2}{n+2}=0!+1!+2!+\dots\dots+n!$.

8. A bag contains six balls, of which some or all may be black. Three balls are drawn and found to be black. Find the chance that no black ball is left in the bag.

Queen's University Examinations: April, 1904.

HONOURS.

Trigonometry II.

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1. (*a*) Prove in any way that $(\cos\theta + i\sin\theta)^n = \cos n\theta + i\sin n\theta$.

(*b*) Explain the force of $\cos\theta + i\sin\theta$ in Argands diagram.

2. Prove that $\cos\Sigma\, a = \Pi\cos a - \Sigma\, s_2\, c_{n-2} + \Sigma s_4 c_{n-4}$ Where $s_r = r$ sines multiplied together, and $c_r = r$ cosines multiplied together.

3. Develope $f(\theta)$ from the relation $f(2\theta) = 2(f\theta)^2 - 1$, and explain what the series means when $a = -\frac{1}{2}, o, \frac{1}{2}, x$.

4. Develope, by any means, $\cot\theta$ to the term involving θ^3, and thence write the developement in Bernoullian numbers.

5. Deduce Machin's formula for π, and show how it applies.

6. Find the 6 roots of $(-1)^{\frac{1}{6}}$.

7. Resolve $\dfrac{1}{x+1}$ into its n linear partials.

8. (*a*) Prove in any way that $\sin\theta = \theta\prod_1^\infty\left(1 - \dfrac{\theta^2}{n^2\pi^2}\right)$.

(*b*) Thence show that $S_{2n} = 2^{2n-1}\pi^{2n}B_n/(2n)$.

9. Sum the series $\sum^\infty \dfrac{n\cos n\theta}{2^n}$, and $\sum^\infty \dfrac{n\sin n\theta}{2^n}$.

Queen's University Examinations: April, 1904.

HONOURS.

Calculus I.

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1. Differentiate (*a*) $\dfrac{4+5\cos\theta}{5+4\cos\theta}$ (*b*) $\log(x+\sqrt{1+x^2})$.

(*c*) $\sin^{-1}\dfrac{3+2x}{\sqrt{13}}$

2. A body is moving along the curve $y=x^3-3x^2+2x$ with velocity v. Find its velocity along the x axis when $x=5$.

3. Find the lengths of the tangent and normal at the point $x=2$ on the curve $y=x^3-x+1$.

4. In the curve $r^2=a^2\cos 2\theta$ prove that $\varphi=2\theta+\dfrac{\pi}{2}$

5. Find the maximum value of (*a*) $\dfrac{1+x+x^2}{1-x+x^2}$;

(*b*) the volume of a right circular cylinder with a given total surface.

6. Find the radius of curvature at any point of the the cycloid $x=a(\theta-\sin\theta)$, $y=a(1-\cos\theta)$. Can it ever be infinite or zero?

7. Find (*a*) $\displaystyle\int\frac{2+3x}{1+x^2}dx$ (*b*) $\displaystyle\int\sin^3\theta\cos^4\theta\,d\theta$

(*c*) $\displaystyle\int x^2\log x\,dx$.

8. Find the area between the curve $a^2y=x^2(x+a)$ and the x axis.

9. If $y=\sqrt{1-x^2}\,\sin^{-1}x$ show that

(*a*) $(1-x^2)\dfrac{dy}{dx}+xy=1-x^2$

(*b*) $(1-x^2)D^{n+3}-(2n+3)xD^{n+2}-n(n+2)D^{n+1}=0$.

(*c*) Obtain the expansion of y in powers of x.

Queen's University Examinations : April, 1904.

HONOURS.

Analytic Solid Geometry.

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1. Given three lines, to find the direction cosines of a line equally inclined the three, and to show from the nature of the result that there can be four such lines and no more.

2. Obtain the relation existing amongst any five points on a sphere.

3. Develop the functional equation of the quadric cone.

4. A parabola whose plane is normal to the z—axis, and whose axis is parallel to the x—*axis* has its vertex guided by the line $z=mx, y=0$. Find the surface so generated, and its sections parallel to the principal planes.

5. Determine the condition that non-central conicoids may intersect orthogonally throughout their figure of intersection, and show that they are confocal on each of their principal sections.

6. Obtain the equation known as the discriminating cubic, and illustrate its function by transforming $3x^2, +3y^2, +2z^2, -2xy-2zx-10=0$ to the principal axes.

7. A hyperboloid of one sheet is cut by a concentric sphere. Discuss the characters of the projections on the coordinate planes of the curve of intersection.

8. Given the principal radii of curvature of a surface, find the radius along any normal plane.

9. In the spatial curve defined by $x^2+y^2=a^2$, $z^2=ax$, find the direction cosines of a tangent line.

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Differential Calculus II.

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1. Obtain the expansion of $f(x+h, y+k)$ in ascending powers of h and k.

2. If $V=(1-2xy+y^2)^{-\frac{1}{2}}$ show that

$$\frac{\partial}{\partial x}\left\{(1-x^2)\frac{\partial V}{\partial x}\right\}+\frac{\partial}{\partial y}\left(y^2\frac{\partial V}{\partial y}\right)=0.$$

3. Show that the polar reciprocal of $r^m=a^m \cos m\theta$ with respect to $r=a$ is $p^{m+1}=a^m r$.

4. Find the asymptotes of

$$x^2(x+y)(x-y)^2+ax^3(x-y)-a^2y^3=0.$$

5. Determine the position and nature of the double point on $x^3+2x^2+2xy-y^2+5x-2y=0$.

6. Show that the locus of the centres of the conics which have third order contact with a curve at a point, is a straight line.

7. Show how to determine the maximum and minimum values of $f(x,y,z)$ subject to the conditions $F_1(x,y,z)=0$, $F_2(x,y,z)=0$, and apply your method to $x^2+y^2+z^2$ where $ax^2+by^2+cz^2=1$ and $lx+my+nz=0$.

Queen's University Examinations: April, 1904.

HONOURS.

Integral Calculus II.

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1. If $\tanh\theta = \frac{\sinh\theta}{\cosh\theta}$ prove that $\int \frac{dx}{a^2 - x^2} = \frac{1}{a}\tanh^{-1}\frac{x}{a}$

2. In the equilateral hyperbola $x^2 - y^2 = a^2$ show that the area between the radius vector, the curve, and the x axis is $\frac{1}{2}a^2 \cosh^{-1} x/a$.

3. Find $\int \frac{(x-1)dx}{(3x^2 - 10x + 8)\sqrt{x^2 - 3x + 10}}$

4. Establish a formula to reduce n in $\int \frac{x^n dx}{\sqrt{ax^2 + 2bx + c}}$

5. Find a formula to reduce ^{2m} and leave ^{2n} unchanged in $\int \sin^{2m}\theta \cos^{2n}\theta d\theta$ and apply it to the case $m=3$, $n=1$.

6. If $\int_0^\infty x^{n-1} e^{-x} dx = \Gamma(n)$ show that $\Gamma(n+1) = n\Gamma(n)$, and also that $\int_0^\infty \frac{x^{n-1} dx}{(1+x)^{m+n}} = \frac{\Gamma(m)\Gamma(n)}{\Gamma(m+n)}$.

7. An epicycloid generated by a circle of radius b rolling round a circle of radius a is rolled along the x axis. Prove that the locus of the centre of the a circle is a semi-ellipse of area $\pi(a+2b)^3/2a$.

Queen's University Examinations: April, 1904.

HONOURS.

Finite Differences.

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1. (*a*) Find expressions for $\Delta^n \sin(ax+b)$ and $\Delta^{-n}\sin(ax+b)$.

(*b*) Find $\frac{\Delta}{\Delta x}a^x$, and thence obtain $\frac{d}{dx}a^x$.

2. Show that $Du_x = \Delta u_{x-a} - \frac{1}{24}\Delta^3 u_{x-b}$ where $a=\frac{1}{2}$, $b=\frac{3}{2}$; and explain whether the relation is exact or approximate when $u_x = x^4$, and when $u_x = x^6$.

3. Develope Weddle's formula for finding the area of a curve. Use it to find the area of the curve $y=\sin x$ between the limits o and π.

4. Prove the symbolic relation $\varphi(e^t)=\varphi(E)e^{o.t}$; and then expand $(e^t-1)^n$ in powers of t.

5. Show that

$$\Sigma(ax+b)^{-(m)} = -(ax+b)^{-(m-1)}/a(m-1)+C.$$

Interpret this and find C in the case when $a=2$, $b=3$, and $m=3$.

6. Prove that $\Sigma u_x \varphi(x) = \Delta^{-1}u_x\varphi(x-1) - \Delta^{-2}u_x\Delta\varphi(x-2) + \Delta^{-3}u_x\Delta^2\varphi(x-3) - + \ldots\ldots$, and employ it to sum the series

$$1^2\sin(a+b)+2^2\sin(2a+b)+3^2\sin(3a+b)+\ldots\ldots\ldots + (x-1)^2\sin(\overline{x-1}.a+b).$$

7. Show that $\varphi(o)-\varphi(1)+\varphi(2)-+\ldots\ldots$

$$=\tfrac{1}{2}\left(1-\frac{\Delta}{2}+\frac{\Delta^2}{4}-+\ldots\ldots\right)\varphi(o).$$

Sum, correct to 4 places of decimals the series

$$1-\tfrac{1}{3}+\tfrac{1}{5}-\tfrac{1}{7}+\tfrac{1}{9}-+\ldots$$

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Spherical Trigonometry and Astronomy.

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1. (*a*) Establish the formula $\cos a = \cos b \cos c + \sin b \sin c \cos A$.

(*b*) Thence deduce values for $\cos \frac{A}{2}$ and $\sin \frac{A}{2}$.

2. (*a*) Obtain the relation $\sin \frac{A+B}{2} \cos \frac{c}{2} = \cos \frac{a-b}{2} \cos \frac{C}{2}$; and write the three other relations of the set.

(*b*) Given $E = A + B + C - \pi$, prove that $\sin \frac{E}{2} = \sqrt{\{\sin s \sin(s-a) \sin(s-b) \sin(s-c)\}} / 2 \cos \frac{a}{2} \cos \frac{b}{2} \cos \frac{c}{2}$.

3. Given two sides and the included angle of a spherical triangle, employ Napier's circular parts to find one of the other angles.

4. Given the lengths of 1° at the equator and at the pole as e and p, find the square of the earth's radius at the geocentric latitude φ.

5. The altitude of the sun's lower limb at culmination is 37° 20′ 7″, the semidiameter is 16′ 12″, the declination is S 8° 13′, the refraction is 1′ 16″, the longitude of the place is 76° 20′ W, and the sun's hourly change of declination is 9″ of N. Find the latitude of the place.

6. Indicate, without full solution, how to find the part of the equation of time which depends upon (*a*) the obliquity of the ecliptic, (*b*) the eccentricity of the orbit.

7. Explain the nutation and give its cause and its period.

Queen's University Examinations: April, 1904.

HONOURS.

Determinants and Theory of Equations.

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1. (*a*) $a_1b_2c_3d_4$ is the leading term of a determinant. Show how to find the sign of any other term, and determine the signs of $a_4b_1c_3d_2$ and $d_1c_2b_3a_4$.

(*b*) Find the coefficient, with its proper sign, of a_{rs} in the determinant $|\, a_{11}a_{22}\cdots\cdots a_{nn} \,|$.

2. $\triangle'$ is the reciprocal of $\triangle$, and $\triangle''$ is the reciprocal of $\triangle'$; a_1 and α_1 are corresponding elements in $\triangle$ and $\triangle''$. Show that $\alpha_1 = a_1 \triangle^{n-2}$.

3. Prove that a skew-symmetric determinant of even order is the square of a rational function of its elements. Find an expression for the square root; and apply it to find the square root of

$$\begin{vmatrix} 0 & 1 & 2 & 3 \\ -1 & 0 & 6 & 4 \\ -2 & -6 & 0 & 5 \\ -3 & -4 & -5 & 0 \end{vmatrix}$$

4. Find the n^{th} convergent to the general continued fraction in determinant notation. Write out in this way the 5th convergent to $\frac{1}{2}+\frac{3}{4}+\frac{4}{5}+\frac{6}{7}$......and simplify the result.

5. If α, β, γ are the roots of $x^3+3Hx+G=0$, find the equation whose roots are $(\alpha-\beta)^2$, $(\beta-\gamma)^2$, $(\gamma-\alpha^2)$. Thence explain how to determine the reality or equality of α, β, γ.

6. If α is a special root of of $x^n-1=0$, prove that the other roots are $\alpha^2, \alpha^3, \ldots\ldots, \alpha^n$. Verify this in the case of all the special roots of $x^6-1=0$.

7. Explain the steps connecting the biquadratic. $a_0x^4+4a_1x^3+6a_2x^2+4a_3x+a_4=0$, and the reducing cubic $4a_0{}^3\theta^3-Ia_0\theta+J=0$. If α, β, γ are the roots of the latter, what are the roots of the former?

8. Express the relation $\sqrt[3]{ax+b}+\sqrt{cx+d}+g=0$ in determinant form, free from radicals.

Queen's University Examinations: April, 1904.

HONOURS.

Differential Equations.

1. Show how to solve the equation $(ax+by+c)dx+(a'x+b'y+c')dy=0$. Does your method apply in the case where $a:a'=b:b'$? If not, indicate a method that will apply.

2. (*a*) Find an integrating factor for $(y^2+2x^2y)dx+(2x^3+xy)dy=0$, and solve the equation.

(*b*) If $\mu Mdx+\mu Ndy=0$ is an exact differential equation, find μ when it is a function of x only. Employ the result to find an integrating factor for the linear equation. $\frac{dy}{dx}+Py=Q$.

3. Solve the equations (*a*) $x=f(p)$, and (*b*) $y=px+f(p)$. Explain the double solution in the latter case.

4. Show how to distinguish analytically the different loci indicated by the vanishing of the p–and c–discriminants of the equations of a system of curves, giving corresponding geometrical interpretations.

5. A parabola rolls on a straight line. Find the equation of the curve traced out by the focus, given that the p,r relation of the parabola with respect to the focus is $p^2=ar$.

6. (*a*) Explain complementary function, and particular integral. Show how to solve $f(D)y=X$, where $f(D)$ can be resolved into linear factors, X being a function of x.

(*b*) Find the primitive of $\frac{d^2y}{dx^2}-2a\frac{dy}{dx}+a^2y=0$.

7. Find the primitive of:

(*a*) $\frac{d^2y}{dx^2}-a^2y=\sin ax.$

(*b*) $x^2\frac{d^2y}{dx^2}-6y=5x^2.$

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Conics II.

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1. Discuss the functions of (*a*) the linears, and (*b*) the rectangular term in the cartesian equation of a conic, and show how to remove them.

2. Show how, by a construction, to find the centre of curvature of an ellipse.

3. In trilinears find a symmetrical expression for the distance between $\alpha\beta\gamma$ and $\alpha'\beta'\gamma'$.

4. (*a*) Find the conic which osculates $S=0$ at the point $x'y'$; and (*b*) thence find the circle which osculates the ellipse at the end-point of the minor axis.

5. If a conic has double contact with three other conics, the 6 chords of intersection pass by threes through 4 points.

6. Given any 5 points not in line, find by construction a 6th point which shall lie on the conic through the five.

7. If a triangle circumscribe a conic and two of its vertices move on two lines, its third vertex will describe a conic having double contact with the former.

8. Show that the polar reciprocal of a circle is a conic and classify the conditions under which the different conics are obtained.

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Quarternions.

1. Prove by vector analysis that (*a*) the mediums of a triangle, as vectors, form a triangle whose area is three-fourths that of the original; (*b*) if O be the centroid, the vectors OA, OB, OC form a triangle whose area is one-third that of the original.

2. Prove the condition (*a*) that three vectors form a coplanar system; (*b*) that three coinitial vectors terminate collinearly.

(*c*) Examine if the diameters of a tetrahedron can be coplanar.

3. If the equation of the ellipse with centre as origin be $S\rho\varphi\rho=1$, (*a*) give the value and meaning of $\varphi\rho$ and the laws of its operation.

(*b*) Prove that $\varphi\rho= -xi/a^2-yj/b^2$, and thence find the cartesian equation of the tangent at $x'y'$.

4. If ρ, ρ' be conjugate vectors of the hyperbola, show that $S\rho\varphi\rho=1$, $S\rho'\varphi\rho'=-1$, and $S\rho\varphi\rho',=0$ are all satisfied by $x/a=y'/b=\cosh\theta$, $x'/a=y/b=\sinh\theta$; and thence show that $TV\rho\rho'=ab$.

5. (*a*) Develop the equation $\rho=t^2i/a+2tj$ for the purabola with vertex as origin.

(*b*) If $\rho_e=(3t^2/a+2a)\ i-2t^3j/a^2$ be the radius of curvature at a point given by t, show that the equation of the evolute is $S^2\rho_e j+4\ (S\rho_e i+2a)^3/27a=0$.

6. If p_1, p_2, p_3 be perpendiculars from the centre of an ellipsoid upon three orthogonal tangent planes then $p_1^2+p_2^2+p_3^2=a^2+b^2+c^2$.

Queen's University Examinations: April, 1904.

First Honour Physics.

Hydrodynamics and Thermodynamics.

1. Find the centre of pressure of a triangular area immersed in a liquid with one side on the horizontal surface.

2. A triangle immersed in a liquid has the vertex in the surface and the base horizontal; divide it by a horizontal line into two parts on which the pressures are equal.

3. A bar of metal 1 sq. cm. in section can sustain a weight of 100 kilograms. A cylinder is made of this metal 1 m.m. in thickness and 50 cm. in diameter; find the greatest fluid pressure the cylinder can sustain.

4. Prove that the rise or fall of a liquid in a capillary tube varies as the diameter of the tube.

5. What is meant by the energy of a soap-bubble? Calculate its value in terms of the tension of the film.

6. A closed cylindrical vessel, height h and radius a, is just filled with liquid, and rotates uniformly about its vertical axis; find the pressures on its upper and lower ends, and the whole pressure on its curved surface.

7. Enunciate and prove Torricelli's theorem as to the speed of flow of a liquid from a vessel in which a small aperture is made.

8. Define the elasticity of a fluid, and shew how to represent it graphically by means of an indicator diagram.

9. What are the gaseous and liquid lines of a fluid? Prove that they converge towards one another.

10. Define the efficiency of a heat-engine, and prove

that the efficiency of a reversible engine is the greatest possible.

11. What is meant by an absolute scale of temperature? How is such attained? Calculate in terms of such the efficiency of a perfect engine.

12. Show how to deduce the mechanical equivalent of heat in terms of the specific heats of air at constant pressure and at constant volume.

Queen's University Examinations: April, 1904.

First Honour Physics.

Stereodynamics.

1. Find the velocity of a projectile that it may pass horizontally through a given point.

2. Two particles of masses m_1, m_2 are connected by an inextensible string and rest on a smooth horizontal table; m_1 is projected along the table with speed u and, just before the string is stretched, its direction of motion makes an angle i with the string; find the initial velocities of the particles after the string is stretched and the impulsive tension of the string.

3. If the motion of a particle relatively to a point be such that the radius vector from the point to the moving particle rotates in one plane and describes areas uniformly, the particle is subject to force towards that point.

4. A particle moves under the action of a central gravitation-force, find the hodograph of the particle's motion, and the path of the particle.

5. Prove that the moment of inertia of a body about a given axis is equal to the m. of i. about a parallel axis through the c. of m. of the body, together with the m. of i. of the whole mass concentrated at the c. of m. about the given axis.

6. A body oscillates about a fixed horizontal axis, find the centre of oscillation, and prove that the centres of oscillation and suspension are convertible.

7. A right circular cylinder of uniform density rolls down an inclined plane; to determine the motion.

8. A spherical shell of uniform density and thickness

attracts an external particle as if its whole mass were condensed in its centre.

9. Find the radius of gyration of a wheel and an axle of uniform density, the radii being 25 cm. and 5 cm. and the lengths equal.

10. If the mass of the wheel and axle in 9 be 20 kilograms and 2 kg. be suspended from the wheel and 20 kg. from the axle, find the accelerations and tensions of the strings.

11. A slab whose under surface is rough, but the upper smooth, slides down an inclined plane. Find the acceleration with which a small particle laid on its upper surface will move along the slab.

12. A sphere rests at the bottom of a hemispherical bowl. If the sphere be so loaded that the height of its c. of w. is $\frac{5}{4}$ of its radius, find the radius of the hemisphere when the equilibrium is neutral.

13. If the Earth were a uniform sphere and in the course of ages its radius contracted $1/n$ of its present value, find what would be the change in the sidereal day.

Queen's University Examinations: April, 1904.

FACULTY OF ARTS: PRELIMINARY HONOUR PHYSICS AND FACULTY OF PRACTICAL SCIENCE.

Electricity—Physics IV.

1. A thin circular piece of aluminium foil (area 1 cm.^{2}, mass $2{\cdot}7 \times 10^{-3}$ gms.) is pressed so closely against a metal sphere of radius 10 cms. that it may be regarded as producing no appreciable projection from the spherical surface. Find the potential to which the sytem must be raised, in order that the electrical force may just lift the foil off, against its weight. 1 volt $= \frac{1}{300}$ electrostatic units of potential.

2. (*a*) Obtain the expression for the capacity of a parallel-plate air-condenser (neglecting the correction for the edges).

(*b*) A leyden jar is made from a parallel-sided beaker of internal diameter 5 cms. and $\frac{1}{2}$ mm. thick. Two pieces of tin-foil 7 cms. broad are pasted tightly around the inner and outer surfaces of the beaker. If the specific inductive capacity of the glass be taken as 6·8, obtain an approximate value for the electrostatic capacity of the jar.

3. Establish the expression for the energy per unit volume in an electrostatic field.

4. Let A be a point on an *east and west* line immediately below a small freely suspended magnet. Let a magnet, "P," 12 cms. long, be placed along the line, its centre being 120 cms. *west* of A and its + pole lying towards A. Let "Q" be a second magnet, 18 cms. long, lying on the line, *east* from A, with its + pole towards A. And let "Q" be slid along the line until its effect on

the suspended magnet just annuls that of "P." If the centre of "Q" be found to be 180 cms. from A determine the ratio of the moments of "P" and "Q." Show how the formula is obtained.

5. Draw a hysteresis curve (B-H curve) and point out the special significance of each part of it.

6. (*a*) Show that the mechanical force per unit length of a conductor, carrying a current i through a magnetic field of strength H, is $F = H\, i \sin \vartheta$ where ϑ is the angle between the directions of H and i.

(*b*) Prove "Neumann's Law," that the induced electromotive force around any circuit is given by the rate of decrease of magnetic lines through the circuit.

7. (*For intra-mural students only.*) Write notes on the following:

(*a*) The principle of the guard-ring.

(*b*) The gold-leaf electroscope as an instrument of precision.

(*c*) Faraday's laws of electrolysis.

(*d*) Corpuscles.

8. (*For extra-mural students only.*) Establish the expression giving the energy required to increase the charge of a body (of capacity "C") from "E_1" to "E_2".

Queen's University Examinations: April, 1904.

Botany. Final Honours.

FIRST PAPER.

Practical Work.

A.

1. Make a list of the plants submitted in the following form:

No.	Order.	Genus.	Species.

2. Select one specimen from each of the following groups and describe (*a*) its structure, (*b*) its mode of reproduction :

1. Algae.
2. Fungi.
3. Musci.
4. Gramineae.

B.

3. Make a list of the plants submitted in the form given above.

4. Select one specimen from each of the following orders, and describe it under the heads, (1) Order, (2) Genus, (3) Species :—Cyperaceae, Filices, Lycopodiaceae, Coniferae.

Queen's University Examinations: April, 1904.

PRELIMINARY HONOURS.

Botany.

FIRST PAPER.

1. Make a list of the plants submitted in the following tabular form:

No.	Order.	Genus.	Species.

2. Select from the buudle one specimen from each of the following orders and describe it under the following heads: (1) Root, (2) Stem, (3) Leaves, (4) Flowers, (5) Fruit.

1. Lobeliaceae.
2. Scrophulariaceae.
3. Orchidaceae.

3. Give a list of the plants in the bundle producing the following fruits: (1) Pome, (2) Acheme, (3) Berry, (4) Capsule.

Queen's University Examinations: April, 1904.

PRELIMINARY HONOURS.

Botany.

SECOND PAPER.

1. Explain the differences between Epiphytes, Parasites, and Saprophytes.

2. Explain what is meant by the following terms when applied to flowers:—(*a*) Perfect, (*b*) complete, (*c*) regular, (*d*) symmetrical, (*e*) neutral. Give examples of each.

3. How do roots differ (*a*) from all other members of plants, (*b*) from stems.

4. Explain how (*a*) a strawberry, (*b*) a raspberry, (*c*) an apple, and (*d*) gooseberry differ from each other.

5. Describe the punctum vegetationis and explain its relation to leaves.

6. Give a classification of the different kinds of fruits.

7. Give the general characters of (*a*) Rosaceae, (*b*) Caryophyllaceae, (*c*) Labiatae.

8. Are the portions of the onion, the potato, and the beet which live through the winter equally entitled to the name of roots? Give reasons for your answer.

9. "Leaves are disposed on stems in various ways." Explain any three of these.

10. Explain the mutual relations of thallome, caulome, and phyllome.

Queen's University Examinations: April, 1904.

PRELIMINARY HONOURS.

Botany.

THIRD PAPER.

Histology, Physiology, Ecology.

1. Describe the physical activity of (*a*) naked Protoplasm, (*b*) of Protoplasm enclosed in a cell well.

2. Describe the fundamental system of tissues, and explain its uses.

3. Explain any three ways in which the equilibrium of water in the growing plant is constantly disturbed.

4. Mention any six of the most important elements of plant food, and any five of secondary importance. Explain how these elements are obtained.

5. Describe the root-cap, its structure and its uses.

6. Write notes on (*a*) some spontaneous movements of plants; (*b*) some movements dependent upon external stimuli.

7. Explain any three adaptations of Xerophytes for reducing transpiration.

8. Describe any two ways in which Carnivorous plants secure a supply of nitrogen.

9. Explain any two ways by which plants protect themselves against herbivorous animals.

10. Define the following forms of Symbiosis and give examples of each :—(*a*) Mutualism, (*b*) Helotism, (*c*) Parasitism.

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Botany.

SECOND PAPER.

Morphology and Histology.

1. Describe the different kinds of symmetry that occur in the bodies and members of plants.

2. Write notes on the development of adventitious secondary members.

3. "The protoplasmic contents of a cell present certain clearly differentiated portions." Mention these portions, and define, or describe any four of them.

4. There are certain "cell contents which are not protoplasmic and are, in fact, not living: they are moreover not universally present in cells, but are confined to special cells, and frequently to special plants." Name any five of these, and write notes on any two of them.

5. Describe the mitotic division of the nucleus.

6. Give a classification of the different forms of tissues, and describe any three of them.

7. Describe a leaf under the following heads:—(*a*) Hypopodium, (*b*) mesopodium, (*c*) epipodium. Name the leaf you describe.

8. Write notes on the "general morphology of the sexual reproductive organs" under the heads of (*a*) gametes, (*b*) gametangia, (*c*) gametophores.

9. A tree may be wounded by cutting off a branch, or by making a notch in its side. Explain the process by which it may be healed.

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Botany.

Physiology.

1. "There are two sets of chemical processes continually and simultaneously going on in living protoplasm, which together constitute the metabolism of the plant." Explain these processes, and how they effect the energy of the plant.

2. Explain the process of absorption and the conditions upon which turgidity depends.

3. "The functions of the plant can only be carried on under a certain coincidence of favourable external conditions." Mention any four of these, and explain the effects of any two of them.

4. Explain the functions of any two of the tissues.

5. How are the two following kinds of organic plastic substances distributed through the plant: (*a*) Nitrogenous substances, (*b*) non-nitrogenous substances?

6. What external conditions affect the activity of (*a*) transpiration, (*b*) respiration?

7. Explain the two kinds of movements of cellular members.

8. Mention any four of the principal causes, or stimuli of movement, and describe the effects of any two of them.

9. From what sources do plants obtain their supply of energy, and how do they spend it?

10. How does Knight's machine "demonstrate that gravity is the directive force which determines the relative directions of growth of shoots and roots?"

Queen's University Examinations : April, 1904.

PRELIMINARY HONOURS.

Histology.

1. Name the varieties of Epithelial tissue. Give the distribution of any one variety.

2. Name the parts for microscopic investigation in a section of kidney.

3. Give the histological structure of a section of artery. Compare with a section of vein.

4. Write explanatory notes on : Portal canal, perineurium, sarcolemma, perimysium, and medullated nerve fibre.

Queen's University Examinations: April, 1904.

PRELIMINARY HONOURS.

Animal Biology.

Physiology.

1. Describe the muscular mechanism of respiration. How has the *tidal*, the *complemental*, and the *residual* air been determined?

2. Locate the supra-renal bodies and explain their function. Classify joints and give examples.

3. What is meant by blood pressure? How is it measured? What structural differences result from it? What functional effects follow from its variations?

4. Classify carbohydrate food-stuffs. Give examples, and explain their digestion and assimilation.

5. Specify the circumstances which produce variations in the quantity of sweat. What is its chief function?

6. Make a drawing of a vertical section of the skin. What different kinds of sensations originate in the skin?

7. How is the *blind spot* located? Define *primary colours, after image, simultaneous contrast.*

HONOURS.

Animal Biology.

Physiology.

1. Give the average general composition of proteids. Trace their digestion, assimilation, metabolism, and excretion, giving proof of your statements so far as known.

2. What are the different effects produced upon the body of a mammal by (*a*) making it breathe in a confined space, (*b*) by keeping it in comfortable surroundings, and giving it nothing but water?

3. What physiological conclusions may be based upon certain anatomical features of the cord?

4. Trace the afferent and efferent paths of nerve impulses in the act of reading aloud.

5. Draw a diagram of the "reduced eye." Describe the muscular and nervous mechanism for movements of the eye-ball. What movement is impossible? Why?

6. Describe the external endings of the eighth cranial nerve. Trace the pathway of its afferent impulses to the various parts of the central nervous system.

Queen's University Examinations: April, 1904.

HONOURS.

General Biology.

1. Give a summary of evolution theories and distinguish primary from secondary factors.

2. Discuss the differences between animals and plants and try to account for the differences. How would you account for the so-called degeneration of animals?

3. Draw a cross section through the front third of the body of amphioxus, and indicate the various structures.

4. Elucidate by means of drawings the modifications in the evolution of the two foremost visceral arches.

5. Compare the corresponding parts of the brain of a *perch*, *frog*, *alligator*, and *bird*.

HONOUR.

Morphology.

(Section B may be omitted by students who have taken the Junior Anatomy of the Medical Course.)

A. *In the Skate, Frog, and Pigeon.*

1. Compare the pelvic girdles.

2. Trace from its various origins the renal portal circulation and also describe in detail the renal circulation in the pigeon.

3. Trace the circulation through the heart, and gills or lungs into the dorsal aorta and discuss tho development of the heart as illustrated by these forms.

4. Name and locate the ventricles and their connecting passages in the brain and discuss the relative development of the cerebral hemispheres, optis lobes and cerebellum.

B. *In the Rabbit.*

Give the origin, insertion, and nerve supply of the following muscles : Deltoid, pectoralis major, subscapularis, semi-membranosus, biceps femoris, and gluteus maximus.

5. Describe the development of molgula.

Queen's University Examinations: April, 1904.

FINAL HONOURS.

Histology.

1. Describe a longitudinal section of the shaft of a long bone, with particular attention to a Haversian system.

2. Distinguish: (*a*) A muco-salivary gland from a serous salivary gland with example of each. (*b*) A "resting" from an "active" salivary gland (mucous).

3. Describe fully the histological structure of the mucous coat of the cardiac end of the stomach. Distinguish from pyloric end.

4. Write a note of explanation on each of the following: Purkinje's cells, neurolgia, pyramids of Ferrein, glands of Lieberkuhn, transitional epithelium.

5. Identify, draw, and describe the specimens submitted.

Queen's University Examinations: April, 1904.

PRELIMINARY HONOURS.

Organic Chemistry.

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1. Describe carefully the properties of ethyl potassium sulphate, comparing it especially with potassium sulphate and with sulphuric acid.

2. (*a*) Discuss fully the reasons for excluding water in the preparation of ethyl bromide and of methyl oxalate. (*b*) In the latter case explain the necessity for the preliminary treatment of the oxalic acid. (*c*) Describe fully, using equations, the principal reactions into which ethyl iodide enters.

3. Explain carefully the differences in conditions which enable us to make ethylene and ether by the reaction of sulphuric acid and alcohol.

4. Describe the characteristic reactions of the aldehydes.

5. Describe the preparation and properties of diazobenzene sulphate, omitting mechanical details.

Queen's University Examinations: April, 1904.

FACULTIES OF ARTS (HONOURS) AND PRACTICAL SCIENCE.

Physical Chemistry I.

(N.B.—Not more than *eight* questions to be attempted.)

1. There is no gaseous compound of chlorine which does not contain in one litre at the standard temperature and pressure approximately 1·59 gramme of chlorine or some simple integral multiple of that number. Derive from this the atomic weight of chlorine showing that you thoroughly understand the argument used.

2. In the equation $pv=RT$ calculate the value of R in foot pound units for the pound molecular weight of oxygen (1 lit.=61 cu. in; 1 lb.=453 grms.).

3. Prove that the molecular heat of a gas at constant pressure is greater by two calories than the molecular heat at constant volume.

4. Discuss the periodic law.

5. Assuming the kinetic theory of gases prove, Avogadro's Law and calculate the speed of the chlorine molecules.

6. Apply the phase rule to the case of a salt solution.

7. The heat of formation of acetylene is said to be —531 calories. How is this calculated?

8. Why are experiments on osmotic pressure not generally used for determining the molecular weights of substance? What other methods are used and how are they connected with osmotic pressure?

9. If copper electrodes are in a copper sulphate solu-

tion and if a current of electricity is passed through the electrolyte one electrode gains just the amount that the other electrode loses. Prove that this fact does not show whether one or both of the ions migrate.

10. How is the degree of dissociation of an electrolyte arrived at?

11. Illustrate balanced actions showing what things affect the balance and how the balance could be determined in your particular experiment.

12. Discuss any one of the applications of the dissociation theory sufficiently to show that you fully understand its application in the case you choose.

Queen's University Examinations: April, 1904.

PRELIMINARY HONOURS.

Physiological Chemistry.

1. "The chemical processes which take place in the animal body are essentially of the character of hydrations and oxidations." Discuss this fully.

2. Discuss the physiological and pathological aspects of the dibasic acids of the oxalic series.

3. Trace the reactions by which in the animal body the amido acids are converted into acids containing no nitrogen, and these in their turn are converted into acids lower in the series.

4. Discuss the *kreatins.*

5. Trace the relationships of *arginin*, *ornithin*, and *putrescin.*

6. Outline the chemistry of *lecithins.*

7. Write notes on the *ptomaïnes.*

Queen's University Examinations: April, 1904.

PRELIMINARY HONOURS.

Chemistry.

Crystallography.

1. Describe the "fundamental form" for each of the six crystal systems.

2. Describe in detail the crystallographic axes for each of the six crystal systems.

3. Sketch the hexahedron, number the faces, and give Weiss' symbols for each face.

4. By examples show what is meant by "fixed" and "variable" forms.

5. How do the fixed forms of the isometric system affect one another in combination?

6. Show what half-forms are obtained by parallel faced hemihedrism in the isometric system.

7. Sketch the models submitted, number the faces, and name the forms.

FACULTY OF ARTS (HONOURS) AND FACULTY OF PRACTICAL SCIENCE (COURSES B AND D).

Industrial Chemistry.

(*Eight* questions *well* answered forms a full paper.)

1. Describe the process of making, and the special characteristics of, any one of the important blue pigments.

2. Describe in detail any of the electrolytic processes for making caustic soda *or* discuss the method by which the necessary voltage for each cell is calculated.

3. Discuss different methods of filtration.

4. Give as fully as possible the chemistry of the formation of sulphuric acid in the lead chambers *or* describe the details that have rendered the contact process industrially successful.

5. Discuss the obtaining of potash salts from the Stassfurt deposit, *or* some kind of artificial fertiliser *or* peroxides *or* bromine *or* porcelain.

6. Describe some form of kiln for the manufacture of cement, pointing out its advantages.

7. What is chemically the difference between drying and non-drying oils and how is the elaidin test of value in determining the character of the oil?

8. Discuss the action of yeast in fermentation *or* the preparation of alcohol by fermentation and subsequent distillation.

9. Describe the process of manufacture of sugar from beets *or* describe how sugar is refined.

10. Give details of the manufacture of any one of the common explosives.

HONOURS.

Organic Chemisty.

(*Extra-mural.*)

(N.B.—Not more than eight questions to be attempted.)

1. Compare and contrast the action of phosphorus pentachloride upon aldehyde, alcohol and acetic acid and the nature of the substances produced.

2. If given acetamide, describe and explain the method by which you would prepare methylamine. How would you convert methylamine into trimethylamine?

3. In the analysis of the silver salt of a tribasic acid it was found that 0·341 gramme if the salt left on heating 0·2151 gramme of silver. What was the molecular weight of the acid and what acid would comply with the conditions?

4. Starting with nitrobenzene explain how the following can be prepared: (*a*) azoxybenzene, (*b*) azobenzene, (*c*) hydrazobenzene, (*d*) aniline, (*e*) phenyl hydroxylamine, (*f*) benzidine.

5. How are the three mononitrophenols obtained? How are the ortho- and para-compounds distinguished, and for what purpose is the para-compound employed?

6. Discuss the merits and demerits of Kekulé's formula for benzene and those of any alternative formula.

7. Describe the preparation of cinnamic acid from benzaldehyde (Perkin's Reaction).

8. Discuss the structure of anthraquinone. Why is it called a quinone, and is the appellation a correct one?

9. What are the general principles involved in the various methods for determining the percentage of nitrogen in an organic compound and to what extent are any of them limited in their action?

10. Compare the mode of preparation and properties of furfurane, thiophene, and pyrrol, and their derivatives, giving reasons for regarding them as ring compounds, *or* prove by synthesis or otherwise the structural formula of glycerine.

FINAL HONOURS.

History of Chemistry.

1. Sketch the history of the manufacture of iron, with special reference to the chemistry of the subject.

2. Outline the Atomic Theory as Dalton propounded it, and note the important additions that have been made since his time.

3. Give an account of Williamson's Theory of Etherification, and discuss the influence of Williamson's work on the choice of atomic weights.

4. Discuss the origin and development of the idea of *valency*.

5. Write notes on the work of Pasteur.

6. Outline the history of the discovery of the coal tar colours.

Queen's University Examinations: April, 1904.

PRELIMINARY HONOURS.

Mineralogy.

1. Using sketches show how a ray of light is affected by a rhomb of calcite. Prove your statements.

2. State the physical constants, crystallographic and optical, for monoclinic minerals, and show how they are obtained.

4. A clinopinacoidal section of the mineral gpysum is placed on the revolving stage of the polarizing microscope between crossed nicols and in parallel polarized light. Trace the beam of light from its source to the eye of the observer, describing the phenomena and explaining where possible.

5. Describe and explain the phenomenon of pleochroism in minerals.

6. Explain the composition of the mineral silicates.

7. Explain how polarized light may be used to detect twinning in minerals in thin sections.

Queen's University Examinations: April, 1904.

PRELIMINARY HONOURS.

Mineralogy.

Crystallography.

1. Explain what is meant by (*a*) limiting forms, (*b*) axial ratio, (*c*) crystal series, (*d*) pseudo symmetry.

2. Giving limiting values to m and n, show how the seven holohedral forms of the hexagonal system may be derived.

3. Give Miller's symbols for the holohedral forms of the monoclinic system.

4. Describe rhombohedral tetartohedrism in the hexagonal system, showing the quarter-forms obtained.

5. Give the results of hemihedrism in the othorhombic system.

6. Describe the three prominent twinning laws in the monoclinic system.

7. Sketch the models submitted, number the faces, and give names and Naumann's symbols for the forms.

FACULTIES OF ARTS AND PRACTICAL SCIENCE.

Petrography II.

1. Discuss Rosenbusch's group of dyke rocks, mentioning the grounds on which it is rejected by American petrographers and reasons for its retention by Rosenbusch.

2. Discuss the common alterations of feldspar in (*a*) diorites, (*b*) gabbros.

3. What is meant by "petrographical province," "schlieren," "stylolith," "poikilitic," "miarolitic?"

4. Trace the development of rock classification from the application of the microscope to petrographical research to the present.

5. Discuss the rock types: "Tonalite," "hyperite," "bostonite," "diabase," "protogene."

6. A rock with the following analysis: SiO_2 54·90, Al_2O_3 16·21, Fe_2O_3 4·99, FeO 2.71, mgO 6·15, CaO 7·01, Na_2O 3·24, K_2O 2·19, H_2O 1.66 has a vitrophyric texture. Classify the rock.

7. Name in tabular form the chief volcanic rocks.

8. In what respects do igneous and sedimentary rocks differ? Show how metamorphic rocks may sometimes be subdivided according to original character by means of certain of these differences.

9. Discuss contact and regional metamorphism, showing parallels and differences in the effects produced.

Queen's University Examinations: April, 1904.

FACULTIES OF ARTS AND PRACTICAL SCIENCE.

Economic Geology II.

1. Discuss the possibility of diamonds being found in Canada.

2. Write notes on Portland cement.

3. Give a list of refractory materials mined in Canada and briefly describe their modes of occurrence.

4. Write a short paper on petroleum in Canada.

5. Discuss the origin of coal.

6. Describe the coal fields of Nova Scotia.

7. What are the essential qualities of good building stone.

8. Write notes on the mineral fertilizers found in this country.

Queen's University Examinations: April, 1904.

FACULTIES OF ARTS AND SCIENCE.

Final Geology and Geology III.

FIRST PAPER.

1. Outline Arrhenius' conception of the interior of the earth. Show how the study of the heavenly bodies adds support to such a theory.

2. Mention the chief materials ejected by volcanoes and discuss the causes of eruption.

3. Write a short paper on earthquakes.

4. Describe by means of sections rock structures which commonly occur in regions of great disturbance.

5. Explain how a river-basin furnishes a history of the river.

6. Explain the relationship of stratigraphical geology to other branches of the science, and mention the chief subdivisions of the geological record recognized in North America.

7. Define the terms "homotaxis," "subsequent," as applied to rivers, "cuesta," "esker," "plateau of erosion."

8. Discuss the origin of mountains.

9. If you were called upon to geologically survey a township, explain how you would set about the task?

PRACTICAL SCIENCE.

For Papers in
  Junior English,
  Junior and Senior Chemistry,
  Botany,
  Animal Biology,
  Geology,

See Arts Pass Papers.

For Papers in
  Physics, Electricity,
  Chemistry,
    " Industrial,
    " Physical,
  Geology, Economic,
    " General,
    " Petrography,

See Arts Honour Papers.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Algebra I.

1. Show that $\sqrt{s(s-a)(s-b)(s-c)}=\frac{1}{4}\sqrt{2\Sigma a^2b^2-\Sigma a^4}$, where $s=\frac{1}{2}(a+b+c)$.

2. The square of the time of revolution of a planet about the sun varies as the cube of the distance. If the distance of the earth from the sun is 1, and the time of revolution of Saturn is 29.46 years, find to 3 places of decimals the distance of Saturn from the sun.

3. Draw the graphs of $y=\sqrt{x}$ and $9x^2+16y^2=144$.

4. A rectangular piece of ground is to contain an acre. Find the sides when the diagonal is the shortest possible.

5. Find the sum of (*a*) $1+\frac{1}{3}+\frac{1}{9}+\frac{1}{27}+\ldots\ldots$to n terms, and to infinity.

(*b*) $1^2+2^2+3^2+\ldots\ldots$to n terms.

6. Expand $(1+x)^{\frac{1}{x}}$ by the Binomial Theorem; and find to 5 places of decimals the value of this when x approaches 0.

7. If $\frac{3}{2}y=\log_e(3x+2)$, find x in terms of y. What is the value of x when $y=4/3$?

8. (*a*) Explain what is meant by the modulus of the common system of logarithms; and show that $\log N=\log_{10}N\log_e 10$.

(*b*) Find the value $\sqrt{176}$, and $\log_e \sin 43°$.

9. Find a series of convergents to 2·3026.

FACULTY OF PRACTICAL SCIENCE.

Geometry I.

1. Find the angles of a regular pentagon, stating the theorems which you use.

2. What is a Locus? A and B are two fixed points 5 in. apart and P is any point such that the angle APB is 60°. Prove that the locus of P is a circle and find its centre and radius.

3. BM is the altitude of a triangle ABC. Show that $AB^2 - BC^2 = AM^2 - CM^2$. Hence find AM and BM if BM is 4 in. and $AM^2 - BM^2$ is 4 square inches.

4. (*a*) Show that a parallel to the base of a triangle divides the sides proportionally. (*b*) D and F are points on the sides BC and AB of a triangle ABC. BD is $\frac{1}{3}$ BC, BF is $\frac{1}{3}$ BA, and CF and AD meet in G. Prove that AG is $\frac{3}{4}$ AD.

5. Draw a normal to a plane from a point and prove that it is a normal.

6. Prove that there can be only five regular solids.

7. The bases of a conical frustum are circles 7 in. and 11 in. diameter 4 in. apart. Find the middle section, volume, and surface.

8. A segment of a circle of 10 in. radius has its chord equal to the side of the inscribed square. Find (*a*) its area, (*b*) the distance of the centre of gravity from the chord, (*c*) the volume generated when the segment is revolved about its chord.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Trigonometry I.

1. (*a*) Define the radian and the degree.

(*b*) Find the distance in miles between two places on the same meridian, the one $42°36'$ N and the other $45°23'$ N; the earth's radius being 2,980 miles.

2. (*a*) Show that $\sin\theta=\sin(\pi-\theta)$, and find corresponding relations for cosine and tangent.

(*b*) A parallelogram has two sides 14 and 17, and an angle $58°43'$. Find the two diagonals.

3. (*a*) Prove the sine formula.

(*b*) In a triangle, $A=24°16'$, $B=73°25'$, and $c=17{\cdot}4$, find a, and the radius of the circumcircle.

5. If $\tan\frac{\theta}{2}=a$, find the $\sin\theta$ and $\cos\theta$.

6. Develope a formula adapted to logarithms to find an angle of a triangle when the sides are given. Employ it to find A when $a=17{\cdot}9$, $b=23{\cdot}5$, $c=32{\cdot}7$.

7. A lighthouse stands in a lake at a distance from shore. Explain how to determine from shore the height of the lighthouse, and its distance out.

8. Prove that

(*a*) $\cos A-\cos B=-2\sin\frac{A+B}{2}\cdot\sin\frac{A-B}{2}$,

(*b*) $4\tan^{-1}\frac{1}{5}-\tan^{-1}\frac{1}{239}=\frac{\pi}{4}$.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Mathematics II.

FIRST PAPER.

(Candidates taking calculus only will omit questions marked with an asterisk.)

1. *(*a*) Obtain the equation of a line in the form $y=mx+b$.

(*b*) Given the line $3x+2y-5=0$, find (i) its intercepts on the axes; (ii) its distance from the point $(3,-2)$ (iii) the cordinates of the points where it meets the bisectors of the angle between the axes.

2. *(*a*) In the triangle ABC, $AC=AB=a$, and P is a point on AB such that $BP=na$. If C be fixed and B slides along the line of the base, find the locus of P.

(*b*) Show that if $n=2$, P moves on a line perpendicular to the base.

3. In the curve $y=x^3-3x^2+2x-2$, find

(*a*) the equation of the tangent at the origin.

(*b*) the position of the point of inflexion.

(*c*) the points of the max. and min. ordinates.

4. A vessel is steaming against a current of 4 miles an hour. Find the most economical speed, if the consumption of coal varies as the cube of the velocity through the water.

5. Differentiate (i) $x \tan^{-1}x$; (ii) $a^{\sin^{-1}x}$; (iii) $\log(x+\sqrt{1+x^2})$.

6. (*a*) Prove that $\left(\frac{ds}{dt}\right)^2 = \left(\frac{dx}{dt}\right)^2 + \left(\frac{dy}{dt}\right)^2 = \left(\frac{dr}{dt}\right)^2 + r^2\left(\frac{d\theta}{dt}\right)^2$

(*b*) A point, P, moves with uniform velocity, v, along the parabola $y^2 = 12x$; find its velocity along the x—axis, and its angular velocity about the focus.

7. (*a*) Show that $\int y dx$ expresses the general area of the curve $y = fx$.

(*b*) Find the area between the x—axis and the curve $xy = 40$, between the limits 1 and 5, the decimal logarithm of 5 being 0·69897.

8. Find the length of the curve $r = 2a \cos \theta$ between the limits $\theta = 0$ and $\theta = \frac{1}{2}\pi$.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Mathematics II.

SECOND PAPER.

(Candidates who take calculus only will omit the questions marked with an asterisk.)

1. *(*a*) Define the ellipse in relation to the circle, and then deduce its equation. (*b*) Find the radii of curvature of the ellipse at the points $(a,0)$ and $0,b)$, the semi-axes being a and b.

2. *At the vertices of a square are placed in order the weights 1, 3, 5, 7. Find by a graphic construction the centre of gravity of the system, the square itself having no weight.

3. (*a*) Prove the theorem of Pappus, $Vol.=2\pi\bar{y}{:}\int Ydx$, and state it in words. (*b*) Find the volume generated by a circle of radius 10 when revolving about a tangent line.

4. *(*a*) Prove that the least moment of inertia is about an axis through the centre of gravity.

(*b*) With an equilateral triangle, show that the square of the radius of gyration about a normal axis through the vertex is 5 times that about a normal axis through the centre.

5. Expand $\sin\theta$ and $\tan^{-1}x$ in ascending powers of θ and x respectively.

6. Find values for (i) $\int\frac{3dx}{3-x}$; (ii) $\int_1^0\frac{xdx}{2-2x+x_2}$; (iii) $\int_0^{\frac{\pi}{2}}\sin^2\theta\cos^2\theta d\theta$; (iv) $\int\frac{dx}{\sqrt{a^2+x^2}}$.

7. Find the equation of the curve which has a constant subtangent, and make a graph of it.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Descriptive Astronomy.

1. (*a*) Define the visible horizon; the rational horizon. (*b*) Is the sea offing either horizon? Give reasons for your answer.

2. In lat. 40° N. at what angle does (*a*) the equator cut the horizon, (*b*) the ecliptic cut the eastern horizon at sunrise on (i) March 21st, (ii) June 21st, (iii) Sept. 21st?

3. Give (*a*) any proofs that the earth is round, (*b*) any proofs that it rotates on its axis.

4. Explain the difference between a solar and a siderial day, and calculate the difference to the nearest second.

5. (*a*) What is the aberration of a star? Give its cause, (*b*) show how we can compute the sun's distance if we know the constant of aberration and the velocity of light.

6. The moon goes around the earth in 27·3 days; find the time intervening between two consecutive new moons.

7. Explain the Julian Calendar, and the correction made to it by Clavius under Pope Gregory.

8. Show how it is that we sometimes have a single eclipse with no other within five months of it.

9. Give a description of the principal phenomena presented by the planet Venus.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Spherical Trigonometry and Astronomy.

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1. Prove the formula (a) $\frac{\sin A}{\sin a}=\frac{\sin B}{\sin b}=\frac{\sin C}{\sin c}$

(b) $\cos\frac{A}{2}=\sqrt{\frac{\sin s.\sin(s-a)}{\sin b.\sin c}}$

(c) $\tan\frac{A-B}{2}=\frac{\sin\frac{1}{2}(a-b)}{\sin\frac{1}{2}(a+b)}\cot\frac{1}{2}C.$

2. Obtain the reciprocal of (1) (c).

3. Find A if $a=30°$, $b=45°$, and $c=60°$.

4. Find c if $a=60°$, $b=30°$, and A$=45°$.

5. The declination of a star is 65° N. Find its greatest Alitude and Azimuth in Latitude 50° N.

6. Find the course and distance along a Rhumb Line from Lat. 45° S. Lon. 30° W. to Lat. 45° N. Lon. 60 E.

Queen's University Examinations: Aprit, 1904.

FACULTY OF PRACTICAL SCIENCE.

Physics I.

(Write answers to parts A and B upon separate pads.)

Tables of Logarithms may be obtained from the presiding Examiners.

A. *Dynamics and Properties of Matter.*

1. A locomotive has its centre of mass 4 ft. above the track. What is the greatest speed at which it can pass around a curve of 2,000 ft. radius if the rails in the curve are on the same level and 4 ft. $8\frac{1}{2}$ in. apart.

2. A Kelvin sounding tube 50 cm. long was lowered to the bottom of the sea and when it was brought again on deck it was found that the silver chromate had been dissolved for 46 cm. from the open end. What was the depth of the sounding? The sp. gr. of sea water is 1·03. Atmospheric pressure $=10^6$ dynes per sq. cm.

3. What is the "Conservation of Linear Momentum?" Give a numerical example of the employment of the principle.

4. A car of mass 100,000 lbs. becomes detached from a train that is running up a grade of 1 in 150 at 50 miles per hour. If the friction be 5 lbs.-wt. per ton, how far up the grade will the car go before stopping?

B. *Light and Heat.*

5. Describe briefly how we find (*a*) the velocity, (*b*) the wave-length, of light waves.

6. (*a*) What is the fundamental property of the focus of a lens?

(*b*) The eye is 1 metre from a lamp. A convex lens whose focal length is 10 cm. is held close to the lamp and then moved towards the eye. Describe the changes seen in the image. Would similar changes be seen if the lens were concave?

7. State the laws upon which the equation

$$pv = RmT$$

is based. What are R and T?

8. A copper vessel whose mass is 52 grs. (s. h. 0·096) contains 147 grs. of water at 14°. When 22 grs. of dry steam at 100° are admitted the temperature becomes 93°. Calculate the latent heat of steam.

9. To keep a basement dry in the summer it is necessary to keep the windows open during the night and closed during the day. Explain why.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Physics II.

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1. State the laws of refraction and describe any method of measuring the index of refraction of a substance.

2. Describe a grating and the appearance of a white light as seen through a grating. How is a grating used to measure wave-lengths?

3. As a locomotive passes an observer the note of its whistle falls a tone ($\frac{9}{8}$). If the velocity of sound is 1100 feet per second what is the velocity of the locomotive?

4. With what velocity must a shot be fired at an elevation of 15° to strike the ground at 6 miles?

5. If the mass of the gun in question 4 is 4 tons and of the shot 150 pounds, what is the energy of the charge of powder?

6. A wire $\frac{1}{16}$ inch diameter, 6 feet long, is stretched 0.04 inches by a weight of 50 pounds. Calculate Young's modulus.

7. A tube whose external diameter is 5 inches and internal diameter 4 inches has the same cross section as a solid rod whose diameter is 3 inches. Compare the loads they will carry with the same bending.

[I of a circle about diameter$=\frac{1}{4}Mr^2$.]

8. Derive the equation,

$$\frac{p}{\rho}+\frac{1}{2}s^2+gh=\text{constant},$$

for the steady flow of a liquid. How are the pressure and velocity of a liquid flowing in a pipe measured?

9. Having an indicator diagram and the dimensions of an engine show how to calculate the work done in a stroke, and the moment applied to the shaft at any instant.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Physics III.

1. Describe the experimental determination of the rate of polarization of a dry cell and of its rate of recovery. Give as complete an account as possible; showing the nature of the curves obtained, with an explanation as to their meaning.

2. Describe as fully as possible, with explanations of the various parts

(*a*) A Weston voltmeter.

(*b*) A Kelvin electrostatic voltmeter.

3. Give *three* methods commonly employed in depolarizing cells, explaining the actions involved.

4. Give the fundamental laws of the induction of currents.

5. (*a*) What is meant by the statement that "The electro-chemical equivalent of copper (cupric) is $3{\cdot}28 \times 10^{-4}$."?

(*b*) A steady current was passed through a copper sulphate solution for 10 minutes. It was found that the kathode had increased in weight from 1·0720 gms. to 1·2097 gms. What current was passing during deposition?

6. (*a*) Write an account of the effect of temperature on the resistance of metals.

(*b*) Give fully the theory of fuse-wire.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Physical Chemistry II.

1. The molecular conductivity of a 5 % solution of potassium chloride is given as 93×10^{-7} when the specific resistance is measured in terms of the metre and the square millimetre and the concentration in gramme molecules per litre; what would it be when the specific resistance is measured in terms of the centimetre, and the concentration in gramme molecules per cubic centimetre?

2. What is Le Blanc's argument that the decomposition of water by a current passing through an aqueous solution is a primary and not a secondary reaction?

3. How is the measurement of electromotive force used to determine the solubility of a difficulty soluble salt or the degree of dissociation of a slightly dissociated double salt, for instance the solubility of silver chloride or the number of silver ions in the double cyanide?

4. How is Meyer's concentration cell a means of proving that the molecule of zinc in dilute amalgam consists of one atom? Show that the concentration cell in action tends to become cool unless the heat of solution of a metal from the more concentrated amalgam is greater than the heat of solution from the less concentrated amalgam.

5. Discuss the dropping mercury electrode and show how it may be used to arrive at the difference of potential between zinc and zinc sulphate solution.

6. Discuss the electrolytic refining of copper and the electrolytic deposition of brass.

7. It is sometimes said that Helmholtz's thermodynamic treatment of the galvanic cell is the more exact, but that Nernst's theory of solution pressure is the more suggestive and fruitful. Discuss this statement.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE (COURSE A).

Industrial Chemistry.

1. Describe with as much detail as possible in respect to apparatus and the process generally, any industrial method for the manufacture of caustic soda.

2. Discuss the cases and the reasons involved where fine grinding is necessary and where it is harmful.

3. Describe Kessler's concentrator *or* give the details of some other method of concentrating solutions.

4. Discuss crystallisation and recrystallisation.

5. Describe the preparation of black ash *or* the preparation of sodium carbonate from black ash.

6. What are the chemical principles involved in the preparation of chlorine and what points have to be considered in the manufacture industrially by the particular process which you describe.

7. Give details of the manufacture of any one of the common explosives.

Queen's University Examinations: April, 1904.

FACULTY OF SCIENCE (COURSE E).

Chemistry of Explosives.

1. Give the processes involved in the explosion of gunpowder and the equation, representing the reactions. What are the reactions of the standard mixtures of which Debus considers gunpowder is composed?

2. Why are such special precautions necessary in the manufacture of guncotton? Give details of the process and show how the desired end is attained.

3. Discuss the different kinds of dynamite.

4. What are the advantages of the Sprengel powders? Describe some of them.

5. Taking the sp. gr. of mercuric fulminate as 4.4, calculate the pressure produced by its explosion, the temperature being assumed to be 400° C.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Optical Mineralogy.

1. In a thin section of a rock a mineral appears having the outline of a hexagon. (*a*) Of what various crystal forms may it be a section? (*b*) How would you identify it?

2. Make a sketch, writing Naumann's symbols on the various faces, to explain the statement that, in the mineral barite the axial plane is parallel to *b* and the acute bisectrix is normal to *a*.

3. Indicate the extinction for the usual oriented sections of a monoclinic mineral.

4. A ray of light falls obliquely on a thick section of purple colored calcite raised above the surface of a table. Show in detail how the ray is affected.

5. Explain the terms, (*a*) anisotropic, (*b*) anisometric, (*c*) negative uniaxial mineral, (*d*) convergent polarized light, (*e*) plane of polarization.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Systematic Mineralogy.

1. Give with Naumann's symbols the domatic series of crystal forms of the orthorhombic, monoclinic, and triclinic systems respectively.

2. Give the physical properties of the two specimens labelled *a* and *b*.

3. Show what use may be made in mineralogy of (*a*) percussion figures, (*b*) etching figures.

4. Explain (*a*) the construction, (*b*) action and (*c*) use of the Nicol's prism.

5. Explain what is meant by the dispersion of light and account for the phenomena.

6. Show how polarized light may be used to distinguish tetragonal and hexagonal minerals from those of the other four systems.

7. Making use of a diagram explain what is meant by dispersion of the optic axes.

8. Using diagrams explain what is meant by parallel and inclined extinction.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Descriptive and Determinative Mineralogy.

1. Discuss the following as mineral-forming elements: (*a*) silver, (*b*) titanium, (*c*) boron, (*d*) tellurium.

2. Discuss the feldspars under the heads: (*a*) form, (*b*) composition, (*c*) optical properties, (*d*) occurrence.

3. Compare the pyroxene and amphibole groups.

4. Describe *in detail* the following mineral species: (*a*) quartz, (*b*) calcite, (*c*) serpentine, (*d*) talc.

5. Given a monoclinic crystal, give details for determining all its optical properties.

6. Give the occurrence for the following (*a*) tourmaline, (*b*) beryl, (*c*) apophyllite, (*d*) wernerite, (*e*) olivine, (*f*) dyscrasite, (*g*) erythrite.

7. Give, with composition, the members of the following groups: (*a*) galena, (*b*) marcasite, (*c*) spinel, (*d*) aragonite, (*e*) natrolite.

Practical.

Determine by the blowpipe the numbered specimens and by field tests the lettered specimens.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Geology II. and Geology of Canada.

(NOTE.—For students taking Geology of Canada only, the first seven questions will constitute a full paper.)

1. Mention localities where Devonian strata are found in Ontario, the characteristic fossils of each formation of the system in Ontario, and any economic products obtained from these formations.

2. How were the lower Huronian rocks of Northern Ontario formed?

3. Discuss fully the "Quebec Group" of rocks, noting particularly their age, character, and economic products.

4. Write notes on the Carboniferous of Acadia, noting the area occupied, the chief fossils, and the distribution of coal in it.

5. Outline briefly the geology of the "Interior Continental Plain." What economic deposits has it been shown to possess?

6. Describe the "Eastern Mountain Region of British Columbia."

7. What are the chief iron-producing districts of Canada? Mention the differences in the character of the ores from the several localities.

8. Explain, using diagram, the method of determining the thickness of strata.

9. Describe the formation of coral islands, and show how limestones may have been produced from them.

10. Mention the commoner effects of compression upon an area of sedimentary strata.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Final Geology and Geology III.

SECOND PAPER.

1. Fossils have aroused the interest of man from the earliest times. Mention some of the earlier views regarding the nature and origin of fossils and discuss the value of fossils in modern geology.

2. Give a brief account of Hutton's theory of the earth.

3. Along what lines are the chief advances in geology likely to be made in the next few decades?

4. Write notes on the mountain chains of North America.

5. Show how the direction of flow of a former glacier may be definitely determined.

6. Mention the most probable causes of glacial periods.

7. Write notes on Lake Agassiz.

8. What evidences are there of changes in the level of Lake Ontario during Quaternary times?

9. Mention the views at present entertained regarding the Archean in Canada.

Queen's University Examinations: April, 1904.

FACULTIES OF ARTS AND SCIENCE.

Economic Geology I.

Ore Deposits.

1. Discuss the relationship which obtains between geology and mining.

2. Upon what bases may ore deposits be classified? Give a convenient classification for practical use.

3. State how a fault may be recognized and the direction of displacement determined.

4. What theory do you consider to explain most satisfactorily the formation of the greater number of ore deposits? Give reasons for your view.

5. How may the occurrence of ore in chutes be accounted for?

6. Describe the occurrence of iron in the Lake Superior district and show how this knowledge may be made use of in exploring our iron ranges.

7. Write notes on the Sudbury nickel district.

8. Under what conditions does chromite occur in Canada, and what prospects are there for its further discovery?

9. Write notes on the silver ores of Ontario.

10. Describe very briefly the mineral occurrences in West Kootenay, B.C.

Queen's University Examinations: April, 1904.

FACULTIES OF ARTS AND PRACTICAL SCIENCE.

Petrography I.

1. Define the term "eruptive rock" and discuss the usual classification of rocks belonging to this class.

2. Mention three petrographical methods whereby members of the plagioclase group of feldspars may be distinguished from one another.

3. Describe the action of a plate of doubly refracting mineral on light passing through a petrographical microscope.

4. An analysis of a rock gives the following results:—SiO_2 45·73; $Al_2\ O_3$ 29·69; $Fe_2\ O_3$ 6·86; CaO 0·44; Mg O 1·01; Alkalies 3·42; H_2O 12·86. Discuss the nature of the rock.

5. Define the terms ophitic, feldspathoid, porphyry, porphyrite, granophyric.

6. Write notes on the origin and mineralogical composition of Laurention limestones.

7. Describe the rocks belonging to the syenite family.

8. How would you distinguish under the microscope between biotite and basaltic hornblende; hypersthene and diallage; nepheline and orthoclase.

9. Describe the effects of ordinary weathering on a granite.

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10. (*a*) Describe and name the hand specimens submitted.

(*b*) Make a microscopic examination of the thin sections submitted.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Mining I.—Third Year.

1. On a sinking property 6,000 ft. of development have been driven; draw a sketch of this, giving marginal notes of dimensions, uses, and probable cost per foot. If vein carries 1 foot of ore, figure out the tonnage in sight.

2. What changes take place near the surface of mineral bodies? How would these changes probably affect: (1) A zincy silver-lead ore; (2) a pyritous copper ore; (3) a dry gold and silver ore.

3. State what you know about prospecting for any one of the following: Coal; iron; copper; lead; or precious metal ores.

4. Describe and illustrate by diagrams, briefly, the blasting and excavations of tunnels; glory holes; and alluvial deposits.

5. A coal seam 4 ft. thick is found on a hillside. The hillside slopes 30° S.W.; the seam strikes N. and dips 45° E. Show by sketch diagram the course of the outcrop and the amount of coal over a level entry which gains a depth of 500 ft. vertically at the inner end.

6. What are the broad differences between coal and metal mining? Describe some typical method of mining both coal and ore.

7. Give an account of the composition, qualities, handling, and application of dynamite. What are the safety explosives, and why are they so called?

8. Describe with illustration some form of drilling machine, either long distance or short, giving as much detail as possible of the way it works, and its capacity.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Mining.—Fourth Year.

1. What is ventilation used for, and how is it accomplished in metal mines, and in coal mines.

2. State the methods of transportation underground clearly and briefly. Describe in detail one of the following: Endless haulage; Aerial tramway; Gravity railroad.

3. Compare the use of rock drills with hand drilling under a few different conditions of labour, nature of ore, or rock, and matter of expediency. Give some cases where each are preferable.

4. What two principal methods are there for mining low grade placer deposits? Describe and illustrate either of these and emphasize the essential conditions for successful operation.

5. What are the principles and practice of balanced hoisting? Given a double conical drum of largest diameter 10 feet, find the diameter of the small ends and the length of drum for any assumed hoisting depth.

6. Illustrate the action of the Riedler differential pump, or the Cornish pump. Give their respective advantages and approximate dimensions for handling water in a 1,000 feet shaft.

7. What are the chief objects of timbering in mines? How can coal or ore be taken out with very little timber? About how much per ton of ore raised does timber cost in a square setted stope, timber costing 10 cts. per running foot?

8. In the examination of a prospective mine five miles back from good transportation, what points would you report upon?

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Ore Dressing.

1. When should hand picking of ore be resorted to? Describe four forms of picking tables and mention when they should be employed.

2. Compare the advantages of the conical, Blake, and Dodge crushers, and sketch a crusher of the Gates type.

3. Describe briefly one crushing machine especially adapted to each of the following operations: (*a*) medium crushing, (*b*) fine crushing, (*c*) pulverising.

4. Describe two typical hydraulic classifiers.

5. How may a Hartz jig be operated to make (*a*) concentrates and tailings, (*b*) concentrates, hutch, and tailings, (*c*) hutch and tailings? In each case mention the kind of bed employed, and the method of withdrawing the concentrates.

6. Explain the theory of grading ore by hydraulic classification, and show how these classified products can be concentrated (*a*) on jigs, (*b*) on a bumping table of the Wilfley type, (*c*) on a slime table.

7. Sketch and explain some form of pneumatic or air separator and state when such a machine should be employed in preference to a wet concentrator.

8. Describe the operation of concentration ores by oil and mention what minerals are especially affected. What are the requisite properties of good oil for this purpose?

9. About what would be the maximum number of

drops per minute obtainable with a gravity stamp falling 10 inches? How is the crushing capacity and amalgamation of the gold in the battery affected by (*a*) width of mortar, (*b*) depth of discharge, (*c*) weight of stamps?

10. In what forms is gold lost when treating ores in the stamp battery, and how are these losses controlled?

Queen's University Examinations : April, 1904.

FACULTY OF PRACTICAL SCIENCE.

The Law of Mines.

(Only eight questions to be attempted.)

1. Give the essential elements of a time contract for the sale of a mine.

2. What is required on the part of the person taking an option to make binding the terms offered by the seller?

3. Write a concise offer of a mine, open for acceptance at a future date, with license meanwhile to mine.

4. What incumbrances should be searched for in examining the title to a mine? What incumbrances affecting the plant of the mine?

5. Distinguish between the contracting powers of partners and Company shareholders.

6. What is the liability of Company directors for wages under Ontario Joint Stock Companies Act?

7. What constitutes a false representation in a prospectus and what penalty follows it? As a crime? As a ground for damages?

8. State the liability of directors for false representations in a prospectus.

9. State some acts of negligence punishable as crimes.

10. What degree of skill is required from professional men or experts in doing or directing works of a dangerous character? To what extent is a Company liable for the lack of skill of professional employees?

11. Give a summary of the cautions enacted by the Mines Act of Ontario for the protection of miners and others.

12. Distinguish between the consequences of remote and proximate causes of injury.

13. Define contributory negligence.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Metallurgy I.

1. What do we mean by the calorific power of a fuel? Define large caloric, small caloric, British thermal unit. Describe briefly the Mahler calorimeter and method of manipulation.

2. What is calorific intensity? What is the theoretical intensity of C burnt to CO_2 in air. Assuming the calorific power of C burnt to $CO_2 = 8080$, Sp. Ht. of $CO_2 = \cdot 22$, Sp. Ht. $N = \cdot 24$ and that air is composed of 3·3 parts to 1 of O? Why is theoretical intensity never attainable?

3. Describe the Otto Hoffman by-product coke oven, and state what by-products are obtained. Why is bituminous coal converted into coke for use in the iron blast-furnace?

4. Compare the relative value of the following natural fuels for (*a*) blast-furnaces, (*b*) reverberatory furnaces: wood, lignite, bituminous coal, anthracite, crude oil, natural gas.

5. Give a short description of two of the following gas producers: Dellwick-Fleischer, Loomis-Pettibone, Monde, Siemens, and mention the relative value of the gas produced for heating purposes.

6. What are the requisite properties of a good refractory material for metallurgical purposes? Describe typical, acid, neutral, and basic material.

7. Describe briefly the smelting of iron ore in a

modern blast-furnace, and mention how the product of this furnace may be converted into steel.

8. Give a short account of the method of obtaining zinc from its ores.

9. What is the effect of C on iron? Mention the probable connection of the grey and white cast-iron series. How may the hardening and tempering of steel be explained, (*a*) considering only the relation of C to iron, (*b*) assuming that the iron can take alitropic forms?

10. Describe and compare the following roasting furnaces: (*a*) Brown straight line, (*b*) White-Howell (cylindrical), (*c*) MacDougall or Herreshoff.

Queen's University Examinations : April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Metallurgy II.

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1. Discuss under the following heads the ordinary MacArthur-Forrest cyanide leaching process for the recovery of Au. and Ag. from ores and battery tailings: (*a*) preparation of ores and tailings, (*b*) leaching, (*c*) precipitation, (*d*) recovery of bullion, (*e*) consumption of K Cy, (*f*) extraction of values.

2. Discuss the Thies barrel chlorination process under the following heads : (*a*) preparation of ore, (*b*) chlorination, (*c*) lixiviation, (*d*) precipitation by any two well known methods.

3. What methods and metallurgical plants would you suggest for treating the following ores?

(*a*) Siliceous ore assaying $15.00 Au. 40% of which of coarse free gold, 40% flour or non-amalgamable gold, and 20% contained in sulphides which constitute 10% is original ore.

(*b*) A siliceous ore assaying $10.00 Au. 70% of which is present as amalgamable gold and 30% contained in sulphides and as telluride which together constitute only 1% of the original ore.

(*c*) Copper ore assaying 60% SiO_2, 15% $CaCO_3$, 15% copper and iron pyrites. Total values 3% Cu. and $2.00 Au. per ton, all in pyrites.

In all cases assume railway communication of about 300 miles with smelting facilities.

4. Given the following ores : Siliceous ore SiO_2 60, CaO 10, FeO 10, Cu 5, S 5. Basic ore FeO 50, Cu 10,

S 30. How should they be mixed to give a 40% matte in the blast-furnace, assuming a sulphur volatilization of 60%? What flux will be required to make a slag containing 30% SiO_2, and 60% FeO and CaO? What kind of fuel and how much should we employ?

5. Describe the operation of smelting copper ore in a reverberatory furnace. To what class of material is this method especially adapted? State what grade of copper matte can be successfully treated in the converter, giving reasons.

6. Describe briefly and compare the various methods of refining and desilverising crude lead.

7. Show graphically and explain the principal chemical reactions of the iron blast-furnace. What is the consumption of fuel in a modern blast-furnace and how is the heat produced, utilized, and economized?

8. Give a classification of pig-irons and describe, giving reasons, the method of manipulating the furnace to produce each.

9. From the following ores it is required to make a pig-iron containing Fe 92, C 4, Si 3, S·05, P·93. (*a*) Fe 60, SiO_2 10, Al_2O_3 3, P 1·0. (*b*) Fe 40, SiO_2 10, Al_2O_3 5, P0, CaO 10. The fuel required is 2240 lbs. per ton (2240 lbs.) of pig-iron produced. Coke contains Fe 1·0, SiO_2 6, Al_2O_3 4, S 1·05. How much dolomite containing 50% of available bases will be required to make a slag in which the ratio of the acids to the bases is 1 to 1.

10. Compare the acid and basic Bessemer and acid and basic open-hearth processes (*a*) with regard to chemical composition of pig-iron required, (*b*) methods and degree of eliminating the C and other impurities.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Thermodynamics I.

1. If the specific density of carbon dioxide is 1·52 compared to air, determine the value of c in the equation $PV=c\tau$ so that it will apply to this gas.

2. A pound of free air at 60° Fahr. is compressed to 60 lbs. gage pressure according to the law $PV^{1\cdot 35}=$constant. After cooling to 65° it is expanded adiabatically to 22 lbs. gage pressure and then allowed to escape to the atmosphere. Determine (*a*) the temperature and the internal energy at the end of compression, and (*b*) the temperature and internal energy when again at atmospheric pressure.

3. In the operation of a mine 600 cubic feet of free air per minute is required. If the compressor is duplex and runs at 100 R.P.M., calculate (*a*) the volume of each cylinder, (*b*) the I.H.P. in the steam cylinders, assuming the mechanical efficiency to be 88%, and (*c*) the efficiency of transmission, assuming that the temperature of the air falls to that of the atmosphere.

4. A boiler is supplied with water at 180° Fahr. and it generates steam at 80 lbs. gage pressure, dryness ·97. Determine (*a*) the total increase of internal energy, (*b*) the amount of heat supplied by the boiler, (*c*) the external work. Account for the external work.

5. Steam passes into an engine at 90 lbs., expands to 8 lbs., and is exhausted at 1 lb. (gage pressures). Determine (*a*) the work done per lb. of steam, (*b*) the steam

consumed per I.H.P. per hour, and (*c*) the thermodynamic efficiency.

6. Steam at 80 lbs. gage pressure is throttled to atmospheric pressure and its temperature is found to be 222°. Determine the amount of moisture in the steam.

7. The travel of a valve is 3″, lead $\frac{3}{32}$″ and cut off $\frac{3}{10}$. Determine the travel and angle of advance if the governor acts to change the cut off to $\frac{3}{20}$, admission still occurring at the same angular position of the crank.

8. A 16″×24″ engine is designed to run at 100 R.P.M. with cut off at $\frac{1}{4}$ stroke. If the steam pressure is 100 lbs. and back pressure 1 lb. by the gage, determine (*a*) the I.H.P. taking, ·85 for diagram factor, and (*b*) the B.H.P., assuming the proper value for the mechanical efficiency.

9. If the engine of question 8 is made compound-condensing by the addition of a high pressure cylinder and a condenser, determine the I.H.P. assuming the condenser pressure to be 3 and the pressure at the end of expansion to be 10 lbs. absolute. Assume the diagram factor for whole expansion to be ·8.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Thermodynamics II.

1. Discuss the advantages in the use of superheated steam.

2. Draw to scale the entropy-temperature diagram for an engine using steam at 100 lbs. absolute, with 120° of superheat, the pressure at the end of expansion being 12 lbs. and the condenser pressure 4 lbs. Assume adiabatic expansion.

3. Point out and discuss the defects in the valve of the engine from which the cards presented were taken.

4. A slide valve gives $\frac{5}{16}''$ maximum port opening, $\frac{1}{8}''$ lead and cut off at $\frac{3}{10}$ stroke. Determine the travel and angle of advance after the governor acts to change the cut off to $\frac{3}{20}$ stroke, the point of admission occurring at the same angular position of the crank.

5. An engine under test consumes 6800 lbs. of steam in 5 hours. The pressure is 80 lbs. by the gage, and the dryness is ·97. The I.H.P. is 102 with a condenser pressure 4 lbs. Calculate the thermodynamic efficiency assuming (*a*) Carnots' cycle, (*b*) Clausin's cycle.

6. A compound engine is required to develop 500 I.H.P. at 150 R.P.M. using steam at 160 lbs. gage pressure. Assuming a condenser pressure of 3 lbs., a drop of 6 lbs. into the condenser and 9 lbs. into the receiver, determine the dimensions of the cylinders making the diameter of the low pressure cylinder equal the stroke. $e = {\cdot}8$; $e_1 = e_2 = {\cdot}85$.

7. Deduce expressions for the volumes of the cylinders of a triple expansion engine in the terms of the initial pressure, amount of drop at the end of expansion in each cylinder, and the speed. Assume the work to be equally distributed between the cylinders.

8. Calculate the I.H.P. of a 10″×20″ gas engine with 30% clearance running at 175 R.P.M. and using gas of which the thermal value is 650 B.T.U. The actual rise in temperature may be taken at 50% of the calculated.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

General Engineering I.

Section 1.—Materials of Construction.

(Only 5 questions to be answered.)

1. Describe fully the "Pig Irons." State the influences of C, Mn, P, S, and Si on Steel.

2. Describe fully the physical characteristics and uses of Copper, Tin, and Lead.

3. Classify the brasses, giving their uses. Describe their physical changes due to change in proportions of ingredients.

4. From what and how are "Blister Steel," "Bessemer Steel," Cast Iron, and Wrought Iron made?

5. What are the proportions of ingredients in common and hydraulic mortars? How is Portland Cement manufactured? Describe composition and mixing of concrete. What is a reinforced beam? Describe one.

6. Name the usual building stones. Classify stone in building construction. What are the tests for durability of stone? Classify brick and describe its manufacture.

7. Describe a method of seasoning timber. What are the characteristics of good timber? How are "wet" and "dry rot" caused? Give in detail a method of preservation of timber. Classify varieties of timber, giving examples.

Section 2.—Mechanics of Materials.

(Only 5 questions to be answered.)

8. Bottom of water tank has span=6 ft., depth of water=10 ft. (1 cu. ft. water=62·5 lbs.) What thick-

ness of planking should be used so that Δ will not exceed ·3 ins.?

9. What sized I beams placed 4 ft. apart will be required to support a floor,—span=24 ft., load 300 lbs. per sq. ft.? What will be the value of Δ?

10. What would be the thickness of material required in a hollow cast iron column, inside diameter=6 ins., height=12 ft., to support end of floor beam in question 8, S=17,000 lbs.?

11. Determine the depths at every 6 ins. of length of a wooden cantilever beam of uniform strength, $b=3''$ and length=6 ft., to support a load of 3 tons at its end.

12. Find the neutral axis perpendicular to web, moment of inertia and radius of gyration about said axis of a T section, width=6 ins., depth 14 ins., thickness of web and flange=1 in., by fundamental principles.

13. What is the greatest allowable load for a wooden column $6''\times 8''$, 15 ft. long, fixed ends, S=1000? If used as a beam, what load placed at centre will cause rupture in either position?

14. A wrought iron cylinder, 20 ins. diam., is under water pressure head=548 ft. Considering the cylinder as thick, determine thickness. S=5000. What is its factor of safety? The head is rivetted on by single lap joint. What should be the size of rivets and pitch of same so that tension of plates=shearing of rivets? $S_t=5000$, $S_c=8000$, $S_s=4000$. Thickness of plate and head to be the same. What is the efficiency of a joint?

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Engineering II.

Theory of Structures.

(Only 6 questions to be answered.)

1. Determine total Reactions and horizontal thrust of iron roof truss, Span=60 ft., rise at centre=30 ft., having 6 panels, distance between trusses=8 ft., due to its weight and wind on free side.

2. A through Pratt truss for double track railway bridge is 140 ft. long and 28 ft. deep, having 7 panels. Determine maximum L.L. stresses in end post, 2nd diagonal, 3rd vertical, and U.C. and L.C. at centre panel, due to Penn. typical pass. locomotive followed by uniform train load of 1·5 tons per linear foot.

3. A 3 deck trestle bent is 12 ft. wide at top and 18 ft. at bottom, height=30 ft. It supports ends of two spans of 20 ft. each and weighing 200 lbs. per linear foot. It is also subjected to wind pressure of 12,000 lbs. acting horizontally and 10 feet above bent. Determine stresses in upper deck columns, 2nd horizontal member and lower diagonals.

4. A cantilever arm of Warren type is 40 ft. long and 10 ft. deep, having 5 panels. Weight 200 lbs. per linear foot concentrated on lower chord. Load at end=20 tons. Find stresses in all members at centre panel.

5. A deck Howe truss 120 feet long, 8 panels, depth=20 ft., used for single track Ry. Bridge. L.L.=4000 per linear ft. and two concentrated loads, 45 ft. apart, of

20 tons each. Find max. and min. stresses, due to D.L. and L.L., in members of 3rd panel, D.L. distributed between chords in ratio 1 to 2. Where will counter braces be required?

6. The upper and lower lateral systems of the Pratt truss in question 2 are of Pratt type. The trusses are 28 ft. apart. Wind on U.C. is 150 lbs. per lin. ft. and 450 lbs. per lin. ft. on L.C., treated as live load. Determine maximum wind stresses in upper and lower chords of 3rd panel, in end posts, in 2nd strut (upper system), and diagonals of 2nd panel lower system.

7. A deck Baltimore truss is 240 feet long and has 8 panels, depth=30 ft., used for city highway bridge, width between trusses=25 ft., width of floor=35 ft., (sidewalks projecting). Find maximum stresses due to L.L. in 2nd subvertical, diagonals adjoining said subvertical, and U.C. and L.C. 3rd panel.

8. A bow string truss is 80 ft. long and has 5 panels, rise 1st vertical=12 ft., and of 2nd vertical=18 ft. Verticals are compression members. Is a highway bridge distance between trusses=30 ft., sidewalks of 5 ft. each outside truss. Find maximum stresses due to D.L., L.L., and S.L. in U.C., 2nd panel, L.C. at centre, 1st vertical and diagonals of 2nd panel.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

General Engineering III.

1. A pipe line slopes at 3°, its diameter is 1′ (sine 3° =·05234. At two points 1000′ apart pressure guages read 21·7 lbs. and 36 lbs. respectively. Find discharge through the pipe.

2. Show by diagram and figures the correct calculated hydraulic gradient in the following case: A pipe line 2000′ long. 1′ diam. ends in a nozzle ·1′ diam. Head =100′. Show clearly what becomes of this head between the entry to the pipe and the exit at nozzle.

3. In a rectangular wire $b=10'$, $H=1'$, the depth of the approaching stream is 2′ and its width 15′. Find the correct discharge over this weir. What is the cross-section of the stream if the same discharge takes place when $b=5'$.

4. A pair of canal lock gates are 20′ high. The hinges are at 1′ from the top and bottom respectively. The head of water on one side is 15′, on the other is 9′, breadth 50′. Find the stress or reaction on the hinges.

5. The depth of water to be dammed is 20′, the dam slopes under it at 45°, is flat on top and drops vertically on the outer side. Construct a cross-section which will have a factor of safety of 5 for sliding failure and find the factor of safety against failure by rotation in this cross-section. The weight of material used is 167 lbs. per cubic foot and water is to be flush with the top.

6. In the case of an inward horizontal impulse wheel there are the following conditions: $r=3'$, $r_,=2'$,

$v=60'$, area of jet $=\cdot 1'$, $a=30°$, $\varphi=60°$, $\beta=60°$, $V_1=w_1$. Find the H.P. and efficiency of this wheel.

7. If head is 200′, length 2000′, and diam. of pipe 2′, diam. of nozzle ·1′. Find the H.P. developed by a pelton wheel of 80% efficiency; also the head lost in transmission.

8. A water supply of 1000′ miners inches is 50′ above and 50,000′ distant from a point to be irrigated. Accepting a safe velocity through gravely soil, find the dimensions of a trapezoidal ditch of best cross-section, also its length.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Graphical Statics.

(Only 5 questions to be answered.)

(Results of problems to be marked on structures.)

1. Find stresses in a roof truss span=100 ft., 8 panels, verticals are struts, lower chord horizontal, rise at centre =40 ft., due to wind load on fixed side.

2. Find maximum stresses in all members of a deck Howe truss for highway bridge 26 ft. wide, due to dead load, live load, and snow load. Span=80 ft., 5 panels; depth=15 ft.

3. A Pratt truss is 160 ft. long, has 8 panels, and is 24 ft. deep. Find maximum stresses in all members, due to 2 concentrated loads of 20 tons each, which are 20 ft. apart.

4. A crane is formed of 5 equilateral triangles 10 ft. long, one side of base triangle is horizontal, remainder on quadrant of radius=25 ft. Find stresses in all members, due to load of 20 tons supported at its end.

5. Find maximum stresses in a Warren truss with sub-verticals, span=140 ft., depth=16 ft., 7 panels, distance between trusses=20 ft.—highway bridge, sidewalks projecting 5 ft. on either side.

6. A plate girder for single track bridge is 80 ft. long and 8 ft. deep. Find maximum bending moments and vertical shears at sections, 5 ft. apart, due to a Penn. typical passenger locomotive, followed by uniform train load of 1·5 tons per linear foot.

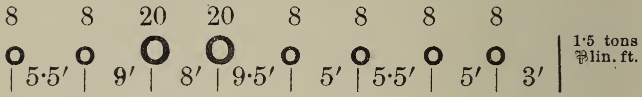
7. Find D.L. stresses in a through Pratt truss 200 ft.

long and 24 ft. deep, having 10 panels, the dead load being distributed between chords in ratio 2 to 5. Bridge is for double track railway.

Normal pressures per sq. ft. for horizontal wind pressure of 40 lbs. per sq. ft. for different inclinations of roof:

Incl.	Nor. Press.	Incl.	Nor. Press.	Incl.	Nor. Press.
5°	5·1	25°	22·6	45°	36.0
10°	9·6	30°	26·5	50°	38.0
15°	14.2	35°	30·1	55°	39·4
20°	18·4	40°	33·3	60°	40·0

Pennsylvania typical passenger locomotive:



Loads.

For Highway Bridges L.L.=70 lb. per sq. ft.

" D.L. Highway Bridges $w=140+12b+0{\cdot}2bl-04l$.

" D.L. Railway Bridges (single track) $w=560+5{\cdot}6l$.

" " " " (double track) $w=1070+10{\cdot}7l$.

Where w=weight per linear foot, l=span, l=width.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Foundations.

1. Describe the different kind of piles used in foundations, and the methods employed in driving.

2. Sketch the position of the piles in the foundation of a pier, the measurements of which are, outside footing courses, width 14 feet, length 32 feet, height 30 feet. Where would you commence to drive the piles? and give reasons for so doing.

3. Describe a method of removing the sand and silt from the interior of a coffer dam say to a depth of 20 feet without unwatering.

4. Describe a method of sawing off piles to a given level under water.

5. Describe cementing process for sinking shafts in quicksand and water bearing sand and gravel.

6. Describe lateral yielding of a pile foundation under a masonry pier and how to prevent it.

7. Describe a method employed of preventing the material from the sides of a deep excavation on land from caving into the excavation.

8. What would be the safe load in tons that a pile would support which had a penetration of ½ inch under the last blow of a hammer weighing 3,000 pounds with a fall of 20 feet?

9. What would be the projection of a limestone footing course of 12 inches in thickness, the weight of the pier being 4 tons per square foot, and the modulus of rupture of limestone I,500 pounds per square inch and the factor of safety bring 10?

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Municipal Engineering.

1. In determining the size of a sewer at a certain point, state what the conditions are that will produce the maximum flow at the point under consideration.

2. In a pipe sewer 18 inches in diameter what will be the minimum velocity that will prevent deposit, and the corresponding slope at the point of maximum discharge?

3. Describe the laying of a 14-inch sewer to a 0·5 grade, and enumerate the precautions to be taken.

4. Describe the action of a contact filter during the passage of two doses from a septic tank, and its action on the sewage.

5. Describe a sand filtration plan for the filtering of a public water supply of 2,000,000 gallons per 24 hours.

6. Describe the construction of a first-class macadam roadway over a comparatively level sub-soil from the turning of the first sod to the opening up for traffic.

7. Describe a method of a fair basis of comparison of the cost of different kinds of walks and pavements, knowing the life, cost, rate of interest, and cost of annual repairs.

8. Describe the construction of a bitulithic pavement.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Railway Construction.

1. Describe the wear of both the inner and outer rails on a sharp curve, giving the causes.

2. Describe the entries that should be made in the Resident Engineer's Bridge book.

3. Describe clearing, slashing and grubbing. What rules should be enforced during their prosecution?

4. Describe the plan of a masonry structure which should accompany the final estimate.

5. Determine the elevations at the full stations on a vertical curve 1,000 feet long, elevation at point of curve on 0.9 per cent. grade, descending being 250.00, elevation at intersection of grades 245.50, and elevation at point of tangent on 0.8 per cent. grade, ascending being 249.50.

6. What is the limit of overhaul, and what should be done with waste material?

7. Describe how an embankment of 16-foot road bed, slopes $1\frac{1}{2}$ to 1, should be finished on a 6 degree curve.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Railway Engineering I.

Construction.

1. Sketch (roughly) a stone box culvert and name all the different parts.

2. Sketch (roughly) an arch culvert and name all the different parts.

3. What should be the size of opening of a box culvert which drains 225 acres of hilly ground, taking 0·5 as co-efficient?

4. Describe the preparing of a wooden pile for driving in a pile trestle, with a steam hoist pile driver; also describe its being driven to 15 feet in depth in stiff blue clay, and state what precautions should be taken.

5. Describe the different forces that have to be taken into account in designing a stable bridge pier.

6. Sketch (roughly) an elevation of a pile trestle bent, showing transverse section of deck and name the different parts.

7. Describe the different methods of protecting frame trestles from fire.

8. Describe what is known as "Rip-rap" and "Pitching," and what are their uses?

9. Describe the preparation of a side hill to receive an embankment and give the reasons for the necessity of the work done.

10. Describe a cluster-post trestlebent and enumerate its good points.

11. Describe the construction of an embankment 2 feet 6 inches high across a soft muskeg swamp.

12. Describe a refuge bay, and state what it is used for.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Railway Engineering II.

Maintenance.

1. What are tie-plates used for? and when may they be used to special advantage?

2. Describe the work to be done by a section gang in the spring, of the year, called "spring work."

3. Describe creeping track and state the means employed to try and prevent it.

4. What are the reasons that some of the heavier rails of to-day do not give as good service as lighter rails made some years ago?

5. Describe the different classes of cattle guards and state the good and bad points of each class.

6. Describe the work of tie renewals. When should this work be done, and what other track work should be done as the ties are renewed?

7. Describe a shim. What are they for and where are they placed? Describe the cause of the necessity of their use.

8. Describe a highway crossing at rail level that complies with all the requirements of the law.

9. Having a No. 10 frog, and the turn-out is from a straight track, what will be the degree of curve that will fit the frog?

10. If a turnout is to the inside of a 3 degree curve, what will be the radius of the turnout curve that will fit a No. 10 frog?

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Electrical Engineering I.

1. One magnetic circuit of an electric generator is made up as follows: 22″ of cast iron with a section of 170 sq. inches, $\mu=300$; 20″ of sheet steel with a section of 92 sq. inches, $\mu=1500$; $\frac{1}{4}''$ air gap with a sectional area of 100 sq. inches. What ampere-turns are required to produce a flux of 5×10^6 lines?

2. In a transformer designed to convert 1110 volts to 110, frequency 60, the maximum induction in the core is 4000 lines per sq. cm. If the sectional area of the core is 80 sq. cms. determine the number of turns on the coils.

3. An alternating E.M.F. has an effective value of 110 volts at a frequency of 60. Express this as a function of time. What would the mean value be?

4. A 440 volt, 30 cycle alternator supplies current to a circuit whose resistance is 2 ohms and inductance ·08 henry. Determine the heat loss in watts.

5. The power factor of a 10 H.P. induction motor is ·9 and the efficiency is 80%. What current will it take from a 220 volt line?

6. The distance from the generator to the center of distribution of a group of 40 incandescent lamps is 300′. The diameter of the wires is ·182 inch. If the voltage at the generator is 115, determine the voltage at the center of distribution and the energy loss in the wires up to this point.

7. The magnetic flux passing from one pole of a 6-pole

generator to the armature is 3×10^6. If the armature is series wound with 800 conductors to give 500 volts, determine the speed. If the field excitation remains unchanged and a voltage of 600 is applied to the brushes in opposition to the 500 volts, state definitely what will happen.

8. Why is it necessary to place a resistance in series with a direct current motor when starting it? How would you change the direction of rotation? If the polarity of the line is changed how will the motor be affected? If the line voltage be applied to the brushes when the motor is at rest the winding will probably burn out. What prevents this when the motor is running?

9. Describe the operation of a three-wire system, pointing out the advantages.

10. In the lighting of the interior of a factory by direct current, 20 enclosed arc and 150 16-c.p. incandescent lamps are required. Determine the capacity of the generator. If the distance from the generator to the center of distribution on one pair of mains supplying 6 arcs and 40 incandescents is 500′, determine the size of the wires to keep the voltage drop within 4%, the voltage being 110.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Electrical Engineering II.

1. Two similar bar magnets with rectangular section 1×0.5 cm. are allowed to attract one another so that two poles are in contact and exactly opposite. If it takes 0.4 lb. to separate them, determine approximately the strength of their poles and the total number of lines associated with each magnet.

2. Determine an expression for the strength of the magnetic field at any point on the axis of a coil wound in the form of a square, the length of whose side is a, when a current I is flowing in it.

3. A current is measured by means of a voltmeter conneted in parallel with a resistance of .01 ohm. The voltmeter indicates a maximum of 300 millivolts and its resistance is 1 ohm. What is the maximum current the arrangement will measure and by what factor must the voltmeter readings be multiplied to give amperes?

4. A coil of wire whose inductance is .06 henry and resistance 20 ohms, is placed beside a second coil so that their mutual inductance is .02 henry. An alternating E.M.F. of 100 volts, frequency 60, is applied to the first coil. If the circuit of the second coil is open, determine (a) the current in the first coil, and (b) the voltage in the second coil.

5. A 220 volt, 40 cycle alternator delivers 20 H.P. to lamps and 80 H.P. to motors, the power factor of which is .85. Determine the total current and the power factor for the whole system.

6. A Siemens dynamometer is to be used as a voltmeter on a 60 cycle circuit with a resistance of 100 ohms. in series. Its inductance is .01 henry. Will its readings be high or low, and what will the percentage error be if the inductance is neglected ?

7. A condenser of 50 microfarads capacity is connected between 1,000 volt, 40 cycle mains in parallel with a coil whose resistance is 30 ohms, and inductance .14 henry. Determine the current (*a*) flowing into the condenser, (*b*) through the coil and (*c*) in the mains. What would the power factor of this circuit be ? If the main circuit is opened what would be the frequency of the oscillating current in the circuit formed by the condenser and coil ?

8. The primary coils of two transformers have each 560 turns and they are connected to 800 volt, two phase mains. Calculate the turns required on each of the two secondary coils so that these two coils when connected in series will give an E.M.F. of 400 volts, 30° in advance of the E.M.F. in one of them.

9. A transformer is made up of sheets $7\frac{1}{2}'' \times 12'' \times \frac{1}{64}''$ thick with two holes $3'' \times 4\frac{1}{2}''$ punched out to receive the coils. The sheets are built up to make a total thickness of $8''$. There are 1100 turns on the primary and the transformer is used to reduce 2100 volts to 210, frequency 60. Calculate (*a*) the number of turns on the secondary, (*b*) the hysteresis and eddy current loss, (*c*) maximum induction, (*d*) leakage current. If the secondary is connected to a circuit whose resistance is 4 ohms, and inductance .02 henry, calculate the primary and secondary current and power factor.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Electrical Engineering III.

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1. Explain in detail the operation of a Thomson recording wattmeter, giving proof that it integrates the total power.

2. How would you alter a 110 volt 4-pole multiple wound motor so that it would run on a 220 volt circuit at its normal speed and power with practically no waste of energy?

3. The armature of a 3½ H.P. 4-pole 110 volt motor is series wound with 394 conductors. The armature resistance is ·2 ohm, and flux per pole 6×10^5. Calculate (*a*) the full load speed, neglecting armature reaction, and (*b*) the copper loss in the armature.

4. If the brushes on the motor of question 2 are set back 10 electrical degrees, what would the demagnetising ampere-turns be at full load?

5. A 1200 K.W. generator is driven at no load and normal speed and excitation by a 110 volt motor, and the current taken by the armature of the motor is 292 amperes. When the motor is disconnected from the generator the armature takes 28 amperes. Determine the efficiency of the generator, neglecting the resistance of the motor armature. The resistance of the shunt winding of the generator is 70 ohms, series winding ·00067 ohms, armature ·003 ohms, and the normal exciting current is 8 amperes.

6. When is a generator said to be over-compounded? What is the object of compounding?

7. How would you proceed to connect two compound generators of different construction to work in parallel? What difficulty would you expect to meet and how would you remedy such difficulty?

8. What are the characteristics which make the series motor valuable for certain kinds of service? Give illustrations of the kind of service for which it is suited.

9. What are the advantages of storage batteries in connection with electric lighting and power plants?

10. The brushes of a generator are shifted a distance equal to the pole pitch. How will the generator act?

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Electrical Engineering IV.

1. An ordinary transformer rated at 2 K.W., 100 volts primary and 10 volts secondary, is connected up as an auto-transformer to change 100 volts to 110. Determine the full load primary and secondary currents, and the rating of the transformer when so used.

2. In a 2 K.W. transformer designed to change 2000 volts to 200, frequency 60, the sectional area of the magnetic circuit is 12 sq. inches, the mean length 11·5 inches and the maximum induction density is 6,500 lines per sq. cm. for which $\mu = 2500$. The thickness of the plates is 15 mils, resistance of primary 22 ohms, resistance of secondary 2·5 ohms. Calculate (*a*) the leakage current, (*b*) the number of turns on each coil, (*c*) the full load secondary voltage when feeding a non-inductive circuit.

3. A 100 H.P. synchronous motor receives current from a 1100 volt 40 cycle generator. The reactance of the generator is ·1 ohm and resistance ·1 ohm; reactance of motor is ·3 and resistance ·6; reactance of line is ·8 and resistance ·3. To what voltage must the motor be adjusted to give maximum efficiency in transmission? What will be the phase relation between current and E.M.F. of motor? What is the maximum voltage at which the motor will operate?

4. What determines the speed at which maximum torque is given by an induction motor? A 6-pole 10 H.P. motor whose full load speed is 1140 R.P.M. runs on a 60 cycle circuit. If the torque at 1050 R.P.M. is twice the

full load torque, draw to scale an approximate curve of speed and torque.

5. The armature of a 3-phase 10-pole generator is star wound with 2160 conductors placed in 90 slots, and runs at 180 R.P.M. The flux per pole is 275×10^4. Calculate the voltage, assuming the form factor to be 1·12.

6. The armature of a 3-phase alternator is star connected. A wattmeter is arranged with its current coil in main A and its potential coil between A and B. When the wattmeter reads 848 K.W. the corresponding volt-amperes is 1200. Determine the power factor and the total output of power, assuming the system to be balanced.

7. The resistance of the armature of a 40 cycle alternator is ·5 ohm and the inductance is ·01 henry. Calculate the armature drop when it delivers 50 amperes to a circuit of which the power factor is ·85.

8. Determine the size of wires required to transmit 5000 K.W. 80 miles, using the 3-phase system, frequency 30, the voltage being 50000 at the generator and 45000 at the receiving end, and the power factor of the receiving circuit being ·9. The wires to be placed 36″ apart, on the corners of an equilateral triangle. Determine also the efficiency of transmission and line loss.

9. A 200 K.W. 2-phase generator with closed armature winding runs at 340 R.P.M. There are 14 poles, with 2×10^5 lines per pole. The armature has 169 slots with 24 wires per slot. Calculate (*a*) the E.M.F. per phase and E.M.F. between phases, (*b*) the demagnetising ampere turns when feeding a circuit with a power factor of ·83.

10. The secondary winding of an induction motor has no inductance, yet the primary current always lags behind the primary E.M.F. Explain.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Electrical Engineering V.

1. Two transformers are required to change 1100 volts 3 phase to 220 volts 2 phase, frequency 40. Design these transformers to operate on the Scott system, the rating of each to be 10 K.W., efficiency 96½%, thickness of laminations 14 mils, and maximum induction 6000.

2. The diameter of the armature of a 100 K.W. 2 phase rotary converter is 28″. The speed is 900 R.P.M., frequency 60, and direct volts 500. Determine the following: (*a*) dimensions of poles, (*b*) number of conductors, (*c*) number and approximate size of slots, (*d*) excitation required with ¼″ air gap, allowing a gap density of 40000 lines per sq. inch.

3. What size of wire would be required to wind on a spool 5″ in diameter and 5″ long to get 2000 ampere turns without excessive heating when connected to a 110 volt circuit?

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Mechanical Engineering I.

1. Determine the following dimensions for a $16'' \times 20''$ non-condensing engine to run at 160 R.P.M. with cut off at $\frac{1}{4}$ stroke, steam at a working pressure of 80 lbs. and limited to 100 lbs: (*a*) thickness of cylinder, (*b*) number and size of bolts for cylinder head, $f_t.=4000$, (*c*) diameter of piston rod, (*d*) diameter and length of overhung crank pin, maximum pressure not to exceed 600 lbs. per inch of projected area, $f_t.=5000$, (*e*) diameter and length of wrist pin. The shaft is to be $5'$ long between centers of inner and outer bearings, and must carry a flywheel at the center weighing 2400 lbs. with a diameter of $10'$. Determine (*a*) size of shaft, (*b*) dimensions of bearings, (*c*) width of double belt, allowing a stress of 120 lbs. per inch of width. $\theta=180°$, $\mu=\cdot 3$.

2. Design a penstock $8'$ in diameter of mild steel plate to conduct water down a 30° slope, the vertical drop being $80'$; longitudinal joints to be double riveted and circular joints to be single riveted; factor of safety to be 7, and tensile strength of plate to be 60,000 lbs.

3. A 25 H.P. motor running at 750 R.P.M. is geared to a countershaft running at 200, the distance between centers being $15''$. Determine (*a*) the dimensions of the motor bearing next the gear, (*b*) the pitch and dimensions of the teeth in the gear.

4. A hemispherical iron pot $3'$ in diameter is cast with an outside jacket so that heat can be supplied by admitting steam between the jacket and pot. Determine the proper

dimensions for the various parts if the steam pressure is 80 lbs. $f_t = 1200$; $f_c = 5000$; $f_s = 1000$.

5. A jack screw is required to lift 10 tons. Determine (*a*) the size of the screw (square thread), $f_c = 6000$, (*b*) the axial length of the thread in the cast iron base, $f_s = 1000$. (Assume that the load may be placed 1″ off the center line.)

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Mechanical Engineering II.

1. A brake is composed of a disc 24″ in diameter, the whole of which, except the 6″ hub, is enclosed in a case. Oil is forced into this case under a pressure of 40 lbs. per sq. inch and the brake absorbs 25 H.P. at 300 R.P.M. Calculate the coefficient of friction.

2. The period of an oscillation table is observed to be ·5 sec. When an iron disc 2″ thick and 10″ in diameter is placed on the table with its center directly over the axis, the period of oscillation is ·8 sec. Find the moment of inertia of a body placed on the table if the period is 1·2 sec.

3. In a screw-geared hoisting block, the screw is $1\frac{1}{2}''$ in diameter with $\frac{5}{8}''$ pitch and is mounted on a 1″ shaft, the thrust being taken up by a $\frac{1}{4}''$ collar. Power is applied to an 8″ chain wheel mounted on the end of this shaft. The screw engages a 5″ gear wheel mounted on a $1\frac{1}{4}''$ shaft. On this shaft is mounted the main hoisting wheel, which is 3″ in diameter. Determine (*a*) the ratio of the weight lifted to the force applied, and (*b*) the efficiency. Neglect the small thrust on the $1\frac{1}{4}''$ shaft. [$\mu_1 = \mu_3 = \cdot 15$.]

4. An automatic governor is composed of two masses, one 40 lbs. and the other 22 lbs., supported one on each end of an arm 4″×1″ and 25″ long, the arm being pivoted at the center to one of the spokes of the flywheel at a point 5″ from the center of the wheel. When the engine is running it may be assumed that the arm is at

right angles to a line drawn through the center of the wheel and the pivot. The centrifugal force acting on the masses is controlled by a spring acting at right angles to the arm, at a point 6·5″ from the pivot. If the engine runs at 300 R.P.M. determine (*a*) the tension on the spring, (*b*) the maximum stress in the arm, and (*c*) the resultant reaction on the pivot. Neglect the weight of the arm and the effect of gravity.

5. Determine the position and size of balance weights for a locomotive, given that the weight of the reciprocating parts plus one-half the connecting rod is 490 lbs., and the weight of the crank pin and web plus the second half of rod is 650 lbs. Assume the distance between centers of cylinders to be 68″, and the distance between centers of the wheels to be 60″. After placing the balance weights calculate the vertical unbalanced alternating force which comes on the rails.

6. The tool of a slotting machine is driven by a crank and connecting rod, the ratio of rod to crank being 5. If it requires 2000 lbs. to drive the tool, find the maximum force exerted on the crank pin.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Mechanical Engineering IV.

(NOTE.—Students in Mining and Civil Engineering are required to pass in Part I. only. Students in Electrical Engineering must pass in Part II. and the last six questions of Part I.)

I.

1. What is the total heating value and the available heating value of 1 lb. of coal composed of 36% C, 4% H, 3% O, and the remainder ash?

2. In the passage of heat from the furnace of a boiler to the steam, where is the greatest resistance encountered? If the amount of heat transmitted through one square foot of boiler surface over the furnace is sufficient to evaporate 10 lbs. of water per hour from and at 212°, what would be the maximum temperature of the plate assuming the thermal conductivity to be ·045 in British units and the temperature of the water inside to be 350° F.?

3. Sketch and describe the action of a Bourdon steam gage.

4. What are the general advantages of mechanical stokers? Describe and point out the particular advantages of any one type, illustrating by sketches.

5. Sketch, and describe the action of the common forms of safety valve.

6. A water tube boiler is required to generate steam which carries away 8×10^6 B.T.U. per hour. Determine (*a*) the amount of heating surface necessary, (*b*) the size of feed pipe, (*c*) the size of steam pipe, assuming the volume of 1 lb. of steam to be 10 c. ft., and (*d*) the

amount of coal the boiler would consume if the thermal value of the coal is 14000 B.T.U. and the efficiency of the furnace is 70%.

7. In the installation of a system of steam pipes what are the points which require particular attention? A pipe is required to carry 1400 lbs. of steam per hour at 90 lbs. pressure a distance of 400′ with a loss of 3 lbs. pressure. Determine its size. The volume of 1 lb. of steam at 90 lbs. is 4·2 c. ft.

8. A chimney is required to give draft and carry away the gases from boilers aggregating 400 H.P. It is to be round and 100′ high. Determine the proper diameter and maximum intensity of draft (expressed in inches of water), assuming the temperature of the gases to be 500 °F, and the outside temperature to be 60 °F.

9. What is the function of a steam trap? Describe and sketch any one type.

10. A water tube boiler is composed of 108 4″ tubes, 18′ long, connected at each end to headers 4′ × 6″ × 6″, the headers being connected to the ends of two 36″ drums by 12 pairs of 4″ tubes, the total length of a pair (front and back) of these end connections being 6′. During a 9 hour test this boiler consumed 6700 lbs. of coal containing 720 lbs. of ash, and generated 58980 lbs. of steam 98% dry, at a gage pressure of 34 lbs., from water at 83 °F. Calculate (*a*) the rated H.P., (*b*) the developed H.P., (*c*) the equivalent evaporation from and at 212° per lb. of coal and per lb. of combustible.

II.

1. Describe the different forms of condensers. Sketch the Bulkley condenser and describe the principle of its action.

2. What condensing surface and what amount of circu-

lating water would be required in a surface condenser connected to a 300 H.P. engine using 15 lbs. of steam at 120 lbs. pressure per H.P.-hour. Assume that 73% of the heat in the steam is carried to the condenser, the final and initial temperatures of the circulating water to be 110° and 60°F. and that the condensing surface will transmit 200 B.T.U. per square ft. per hour per degree difference in temperature between steam and water. Assume condenser temperature to be 130°, and H at 120 lbs.=1188.

3. A centrifugal fan, whose diameter is 6′ and width 2′, runs at 250 R.P.M. Determine the maximum discharge pressure, the normal discharge in c. ft., and the H.P. required to drive it. What power would be required to run it at 300 R.P.M.?

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Mechanism.

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1. In a gear train show that

$$\frac{\text{ang. vel. of last follower}}{\text{ang. vel. of first driver}} = \frac{N \cdot N' \cdot N'' \ldots}{n \cdot n' \cdot n'' \ldots}$$

Where N is the number of teeth in a driver, and n the number in a follower.

2. It is required to obtain as nearly as possible a velocity ratio of 137:191 with a train of 3 axes, and no wheel to have more than 40 teeth.

3. Given a tangent screw to a wheel of 200 teeth, info how many parts must a micrometer head on the screw be divided so that each division may represent 1′ of angle on the wheel?

4. Explain why it is easier to calculate a set of change pulleys for a crossed belt than for an open one.

5. Describe any method of getting a variable rotation from a continuous one, illustrating as well as you can.

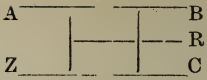
6. What is a gravity escapement? Mention any of its distinctive advantages.

7. Describe Scott Russell's parallel motion. In what respects is it superior to the common slide bars, and in what respects inferior?

8. Show how to draw a bar which will cause a sliding piece to travel uniformly in each way.

9. Describe any two forms of governors not depending upon the conical pendulum.

10. In the epicyclic motion figured (*a*) $a=40$, $b=39$, $c=40$, $z=41$. Compare the angular motion of R with that of Z when A is still. (*b*) If the angular velocity of A is 2 and of R is —6, find a train that will keep Z at rest.



Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Descriptive Geometry.

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1. Determine the projections of a straight line which passes through a point 2″ from the horizontal and 1″ from the vertical, and is inclined at 30° to the vertical and 45° to the horizontal.

2. Draw the plan of an equilateral triangle of 2″ side when its vertices are 1″, $1\frac{1}{2}$″, and $2\frac{1}{4}$″ above the horizontal plane of projection.

3. The horizontal and vertical traces of a plane make angles of 45° and 60° degrees respectively with xy. Find a point in the plane 1″ from each plane of projection, and draw a line through that point, in the plane and inclined at 30″ to the horizontal.

4. The pitch of a roof is 45° and its span is 40′; the pitch of a second roof, which runs into the first at an angle of 60°, is 30° and its span is 30′. Draw a plan of the intersection of the two, and an elevation on a plane parallel to the first.

5. Draw the plan of a regular pentagon of $1\frac{1}{2}$″ side when its plane is inclined at 45° and one side at 30° to the horizontal.

6. One diagonal of an octahedron of $1\frac{1}{2}$″ is inclined at 30° to the and an adjacent edge at 45° to the horizontal. Draw its plan and an elevation on a plane parallel to the diagonal.

7. The vertex of a circular cone is 3″ from the horizontal and 2″ from the vertical plane of projection and

the axis is inclined at 60° to the horizontal and 45° to the vertical. Draw the plan and elevation and determine the tangent planes containing the generators which are inclined at 45° to the horizontal. The vertex angle of the cone is 30°.

8. The axis of a circular cone is 3″ long and is at right angles to the horizontal plane; a plane parallel to one of the generators cuts the axis 1″ from the vertex. Draw the plan of the section and determine its true shape. The vertex angle of the cone is 30°.

9. A 1″ pipe runs into a 2″ at an angle of 45°. Develop the surfaces.

10. A piece of wood 1″ × 1″ × 2″ rests on the top of a cube of 2″ edge, the axis of the wooden piece being parallel to the diagonal of the face of the cube on which the piece rests. Draw an axometric projection with the axes at angles 105°, 120°, and 135°.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Surveying I.

(Seven questions to be answered.)

1. Define Bench Mark, Datum, Back Sight, Fore Sight, Height of Instrument, and Turning Point. Compile a set of levels from Sta. 0+00 to Sta. 20+00, commencing with B.M.=102·85 having at least 4 turning points.

2. Describe fully the adjustment for collimation in the transit. How could you measure angles or produce lines if same were not adjusted. Describe the construction of the plate verniers.

3. An area 200 ft. long and 100 ft. wide is to be graded. Describe in detail what steps would be taken to survey the same, if ground required to be divided into squares of 25 ft. to the side, filling in assumed elevations, &c. Find elevation of grade so that excavation=fill. Make a sketch to scale and contour the area.

4. Distinguish fully the differences between the "Wye" and "Dumpy" Levels, stating order of adjustment in each. Describe method of adjustment in the Dumpy Level for collimation.

5. Derive the formula for Stadia Surveying and describe field procedure, explaining your answer with a sketch.

6. Prove that if a curve joins two lines intersecting at $\Delta°$, (a) Length of curve$=\frac{\Delta°}{D°}$, (b) Radius of curve$=\frac{5729·65}{D°}$, (c) Subtangent$=\frac{5729·65}{D}\tan\frac{\Delta}{2}$, (d) Middle Or-

dinate $= R \text{ vers } \frac{\Delta}{2}$, (*e*) External Distance $= R \text{ Exsec } \frac{\Delta}{2}$. What is the tangential angle and how determined for a sub-chart of 68·2 feet. Describe how you would run in a curve of 4° when $\Delta = 60°$ and B.C. $= 11 + 16$.

7. What and how are Latitude and Longitude Differences determined? How would you balance a traverse? How are areas computed and co-ordinates derived. If two sides *AB* and *DE* of a traverse *ABCDEF* were defective, *AB* in bearing and *DE* in length, how would you supply the omission?

8. Distinguish between azimuth and bearing. Describe method of field work by azimuth and deflection angles, explaining same by numerical example. Convert into azimuth, N. 62° 17′ W., S. 16° 14′ E. Convert into Bearing, 354° 11′, 206° 12′, 114° 06′.

Queen's University Examinations: April, 1904.

FACULTY OF PRACTICAL SCIENCE.

Surveying II.

(Two questions in each part to be answered.)

Pt. 1.—Civil Surveying.

1. How would you proceed to survey (*a*) a harbour, (*b*) a cross-section of a river, fixing soundings permanently? How are angles measured from a boat, and by what method could the position of these soundings be plotted?

2. Describe fully steps taken in a Simple Triangulation. How is base measured? Give an example of a set of readings taken at a station.

Pt. 2.—Railway Surveys.

(Only 2 questions to be answered.)

3. Two tangents intersect at 64° 10′ are to be joined by a compound curve consisting of a 3° curve with central angle=36° 50′ and 5° curve for remainder. Chainage of P.I.=67+18. Find chainages of B.C., P.C.C., and E.C.

4. A curve of 4° connects two tangents Δ=54° 20′. It is decided to shift tangent at E.C. into position, making 10° at E.C. with original tangent, retaining position of E.C. Find new curve and P.C., chainage of P.I.=218+33.

5. Chainage of B.C. of a 5° curve is 64+30, and of E.C. is 79+16. What are Δ and T.? If B.C. had been inaccessible what steps would you have taken to run curve in, determining their values? Compile a page of notes for above curve.

Pt. 3.—Dominion Land Surveying.

(Only 2 questions to be answered.)

6. Give in detail the 5 Systems of Survey for Dominion Lands. Give a sketch showing upon what lines these are based, showing the numbering of townships, sections, &c.

7. Describe in detail the subdivision of a township, stating what corners are marked, lines run and distribution of discrepancies. When an initial meredian intersects the jog what course is pursued?

8. Give the marking of the following corners: (1) N.W. Cor. Tp. 28, Rg. 16. (2) S.W. Cor. Sect. 11, Tp. 13, Rg. 11. (3) Cor. bet. Sects. 21, 22, 26, 27, Tp. 5, Rg. 15. (4) Witness Post 2 chs. South of N.W. Cor. Tp. 10, Rg. 23. (5) S.W. Cor. Sect. 7, Tp. 6, Rg. 20, bet. 3rd and 4th Systems of Survey. Give dimensions and positions of posts pits and mounds for the above.

Pt. 4.—Geodesy.

9. Describe fully the measurement of a base line and reduce same to its value at sea level. Deduce correction to be applied to an inclined rod.

10. Determine formula for spherical excess. Determine true differences of elevation between two stations by angular levelling, distance over 10 miles.

THEOLOGY.

Queen's University Examinations: April, 1904.

Junior Hebrew.

1. Correct the following words:

לֶאֱמֹר רֶגֶע עְבֹר בְּרֵךְ שָׁלוֹח

2. (*a*) How is the definite article expressed in Hebrew? How is it pointed (1) before ordinary consonants, (2) before the gutterals א, ר and ע, (3) before הָ and עָ not in the tone? One example of each class.

(*b*) How is the preposition "from" expressed? Give its pointing (1) before ordinary consonants, (2) before gutterals, (3) before a noun with the definite article. Give illustrations.

3. Define accurately what is meant by the "construct state" and give two cases of a corresponding usage in English. Does a word in the construct take the definite article? Where does an adjective stand which qualifies a noun in the construct? What changes does a noun of the first declension, *e.g.* דָבָר, undergo in passing from the absolute to the construct state (singular and plural)?

Translate:—(1) All the good horses of the king. (2) Your good words.

4. Give the following parts of the regular verb קָטַל: All the pl. perf., inf. cons., and pass. part., Qal.; all the sing. imperf. Niph'al; 3rd sing. masc. imperf., and all the imper. Pi'el; inf. cons. Hiph'il.

5. Translate:—(1) Gen. I. 26–28, (2) I. Sam. x. 1–2, (3) Ps. I. 4–6.

6. Parse the following:—(1) Every word in Gen. I. 17; (2) every word in I. Sam. IX. 9; (3) all verbal forms in Ps. I. 3.

7. Translate:

הָאִישׁ הַטּוֹב הַזֶּה׃
זֶה הָאִישׁ הַטּוֹב׃
כָּתַבְתִּי בַּסֵּפֶר אֶת־כָּל־דִּבְרֵי אִישׁ הָאֱלֹהִים׃
לֹא שְׁמַרְתֶּם אֵת בְּרִיתִי אָמַר אֱלֹהֵיכֶם׃
אַשְׁרֵי הָאִישׁ אֲשֶׁר בִּלְבָבוֹ תּוֹרַת יְהוָֹה׃

8. Translate:

(1) A proverb; my proverbs; his proverbs; your (masc.) proverbs.

(2) This great and powerful people.

(3) This *is* the great king who *is* over all the land.

(4) The words of the prophets of God *are* upright.

(5) God set luminaries in the firmament of the heavens.

Senior Hebrew.

1. What does tense mean as applied to Hebrew verbs? State and illustrate the main uses of the perfect.

2. Translate with brief grammatical uotes: 1 Sam. XVIII : 7-10. Jonah IV 2-3. Jonah II : 5-9.

3. Parse or analyze each word in the following verses: 1 Sam. XIV : 9. Joel I : 7

4. Translate into Hebrew:

May Jehovah judge between me and between this people.

Ye shall hide yourselves in that day. Seek ye my face; thy face we will seek. Your ways are not my ways. I will not give my silver and my gold.

5. Translate into English:

וְיָשֹׁב הֶעָפָר עַל־הָאָרֶץ וְהָרוּחַ תָּשׁוּב אֶל־הָאֱלֹהִים
אֲשֶׁר נְתָנָהּ׃
לְךָ חָטָאתִי וְהָרַע בְּעֵינֶיךָ עָשִׂיתִי׃
כִּי בְּיוֹם אֲכָלְךָ מִמֶּנּוּ מוֹת תָּמוּת׃
אַל־נָא תַּסְתֵּר אֶת־פָּנֶיךָ מֵהָעָם הַזֶּה׃
אָמַר הָאָדָם הָאִשָּׁה אֲשֶׁר נָתַתָּ עִמָּדִי הִיא נָתְנָה־לִּי
מִן־הָעֵץ׃

6. Explain the forms piʻlel pᵉʻalʻal, pilpel, pôʻel.

7. Give the following parts of the verb נָתַן : 2nd sing. masc., and 1st sing. perf.; 3rd masc. imperf., imple. and inf. const. Qal.

Queen's University Examinations: April, 1904.

Systematic Theology.

FIRST PAPER.

(Four questions will be regarded as a full paper.)

1. What are the main features of the teaching of Jesus concerning His own Person?

2. What is the evidence for the sinlessness of Christ, and what is its doctrinal value?

3. What is the import of the designation "Son of God" as applied to Christ?

4. Compare the Johannine and Pauline views of the pre-existence of Christ.

5. Write an expository note on Phil: 2:6–8, "Who being in the form of God counted it not a prize to be on an equality with God, but emptied himself, taking the form of a servant, being made in the likeness of men; and being found in fashion as a man, he humbled himself, becoming obedient even unto death, yea, the death of the cross." State the tenor of the chief theories as to the Kenosis.

Queen's University Examinations: April, 1904.

Systematic Theology.

SECOND PAPER.

(Four questions will be regarded as a full paper.)

1. Illustrate the way in which our view of the Atonement is affected by our view of the Person of Christ.

2. State the views of the Atonement connected with the names of Anselm, Grotius, and Socinus.

3. State and examine Bushnell's theory of the Atonement.

4. Write an expository note on 2 Cor: 5–21, "Him who knew no sin He made to be sin on our behalf, that we might become the righteousness of God in Him."

5. Examine the statement: "Amendment is the only true atonement."

Queen's University Examinations: April, 1904.

Apologetics.

FIRST PAPER.

1. Distinguish Apologetic and Polemic, and discuss the place which Apologetics should occupy in a theological system.

2. Define scepticism, and show its relation to belief and denial.

3. How do those who reject the miracles of the Gospels and accept the four great Epistles of Paul as historical endeavour to vindicate their intellectual consistency?

4. It is contended that Paul has described in the seventh chapter of Romans the struggle which issued in his conversion. Discuss this statement.

5. State briefly the different views as to the source of authority in matters of faith and conduct.

6. Granting that the precepts of our Lord recorded in the Gospels may be found in pre-Christian literature, show wherein the originality and superiority of His teaching lie.

7. Show that although Paul does not explicitly refer to the Virgin-birth of our Lord, his teaching implies his belief in it as a fact.

8. Give reasons why Jesus should have maintained a studied silence regarding His miraculous birth.

9. The belief of the Disciples that Jesus wrought miracles originated in the expectation that the Messiah would perform miracles. Criticise this statement.

Queen's University Examinations: April, 1904.

Apologetics.

SECOND PAPER.

1. "On the Theistic view of the universe and man a special Revelation is not only possible, but highly probable." Discuss the statement.

2. Explain what we are to understand by the inspiration of the writers of the (1) Prophetic, (2) Historical books of the O.T.

3. What are the leading truths of Confucianism which are taught in greater completeness by Christianity?

4. Distinguish the teaching of Christianity and Brahmanism in regard to vicarious atonement.

5. State briefly (1) the rise of Buddhism, (2) the main reasons for its wide diffusion, (3) its fundamental principles), (4) the way in which the end it sets before man is to be attained.

6. State Vico's theory of the Laws of the returns of History, and point out the error that underlies it.

7. What are the great principles which Christianity sets forth as constituting the true basis of social life.

8. Mention the leading principles on which the Christian Philosophy of History rests, and shew wherein the superiority of the Christian scheme over all others consists.

Hebrew Exegesis.

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1. Translate: (1) Isaiah I., verses 10-14. (2) II., verses 12-16.

2. Discuss Isaiah's teaching on (*a*) the moral value of religious ceremonial, (*b*) Holiness, (*c*) the Day of Jahve.

3. Write notes on the following:

נוּכְחָה לֵרָאוֹת פָּנָי כְּמַהְפֵּכַת זָרִים [illegible] יְבֹשׁוּ מְלֵאִים
שְׂכִיּוֹת הַחֶמְדָּה

4. Parse the following:

פָּרִשְׂכֶם נָזֹרוּ שָׁבֶיהָ אִנָּקְמָה הִזַּכּוּ

5. Describe the leading elements in Isaiah's conception of God.

Queen's University Examinations: April, 1904.

N.T. Criticism and Exegesis.

1. Into what groups have the MSS. of the N.T. been classified? Mention the characteristics of each group.

2. Describe briefly the two oldest MSS. What other writings are included in them? What is a palimpsest?

3. Discuss the gift of tongues as manifested in the Church at Corinth, and at Jerusalem on the day of Pentecost.

4. Translate and interpret:—

I. Cor. 2 : 6 (first clause).
I. Cor. 3 : 11.
I. Cor. 11 : 10 and 24.
I. Cor. 13 : 13.
I. Cor. 14 : 32.
I. Cor. 15 : 29.
Eph. 1 : 23.

5. What was the *ἐκκλησία* of I. Cor.? State the characteristics of a true Church as indicated in this Epistle.

6. Was the Epistle "*Πρὸς Ἐφεσίους*," addressed to the Church at Ephesus? Discuss this briefly.

7. What is the aim or purpose of the Epistles to the Ephesians and Colossians respectively?

8. Distinguish *θέλω* and *βούλομαι*: *γινὼσκω* and *ὂιδα*: *ὑστερεῖσθαι τινὸς* and *ὑστερεῖσθαι ἐν τινὶ*; *νοὶ* and *γύωμῃ*; *ἤδη*, *νῦν*, *ἄρτι*.

9. Paraphrase carefully Eph. 1 : 3-7.

Queen's University Examinations: April, 1904.

Church History.

(Five questions only to be attempted.)

1. Give a brief account of the effects of the Fall of Jerusalem.

2. Describe the character of the persecution under Domitian.

3. Summarize the teaching of the Ignatian Epistles.

4. What influences led to the rise of Christian Apology?

5. Sketch the main features of Montanism.

6. Write a short life of Clement of Alexandria.

7. Distinguish and describe "Dynamic Monarchianism" and "Modalistic Monarchianism."

8. Examine the story of the Thundering Legion.

Queen's University Examinations: April, 1904.

History of Dogma.

(Five questions only to be attempted.)

1. State the presuppositions of the Christian belief in Immortality.

2. Discuss the Old Testament doctrine of Sheol.

3. Comment on the following:—(1) "I am the God of Abraham, the God of Isaac, and the God of Jacob." (2) "I shall be satisfied when I awake with Thy likeness." (3) "The righteous hath hope in his death."

4. Describe the influence of the Exile on the Growth of Belief in a Future State.

5. What contribution does the Book of Job make to the doctrine of Immortality?

6. Indicate the main Elements in our Lord's Teaching as to the Future Life.

7. Show the bearing of our Lord's Resurrection on the belief in Immortality.

Queen's University Examinations: April, 1904.

Old Testament History.

(N.B.—Only eight questions to be attempted.)

1. "The history of the religion of Israel begins with the sojourn of the tribes in Egypt." Examine this statement.

2. In what sense may Moses be called the prophetic founder of Israel? What was the special excellence of the religion of Moses? What was his conception of the relation between Jehovah and Israel?

3. State the influence of the monarchy under the earlier kings in developing the religion of Israel.

4. Account for the presence of religious syncretism under Solomon. Show how it led to political and religious decline under his immediate successors.

5. Explain the nature of the unfortunate connection between the ardent reforming propaganda of Elijah and the indefensible cruelties of the house of Jehu.

6. Account for the rise of prophecy. What was the difference between the Elohist and Amos as to their methods of religious and moral reform?

7. How did Amos and Hosea respectively regard the "cultus" against which they both preached so earnestly?

8. Sketch briefly the Denteronomic movement, mentioning its more important features, and its more important results.

9. How did the national extinction of Israel and Judah affect the Hebrew religion?

10. What is meant by the Messianic expectation? What form did this expectation take in the minds of the prophets at first? What form at a later time? And what further modification did it undergo in the time of the "Deutero-Isaiah?"

Queen's University Examinations: April, 1904.

The History of Hexateuch Criticism.

(Only eight questions to be answered.)

1. Give a brief statement of what is meant by the "Documentary Theory."

2. Mention other and earlier theories.

3. What are the facts or difficulties that have led to the propounding of such theories?

4. Give instances of different kinds of "Duplicate Narratives."

5. Illustrate the statement that the arguments for the "Documentary Theory" in its practical form are varied and cumulative.

6. In what way has there been a tendency to modify the dominant theory since it took its final shape from the hands of Kuenen and Wellhausen?

7. State briefly the position and work in relation to this movement of any of the two following: Luther, Carlstadt, Astrac, Eichorn Ilgen, Richard Simon, Vatke.

8. By an examination of Genesis I. show the complexity of the particular ploblems involved.

9. Mention briefly the characteristic features of the four main documents.

10. Discuss the character of the contents of Genesis.

Queen's University Examinations: April, 1904.

Mackie Scholarship.

THE EARLY GREEK APOLOGISTS.

1. Discuss the significance of the rise of a Christian Apology.

2. How far did the Apologists treat of specifically Christian doctrine?

3. Give some account of the Apology of Aristides.

4. Briefly outline the argument of Justin Martyr in his First Apology.

5. How did the Apologists refute the Pagan objection that Christianity was an innovation?

6. Compare the Greek and the Latin Apology.

Queen's University Examinations : April, 1904.

B.D. EXAMINATION.

Systematic Theology.

FIRST PAPER.

1. How do we acquire our idea of God ?

2. What are the chief characteristics of God presented in the Old Testament ?

3. What is implied in Christ's designation of God as "Holy Father ?"

4. What is the Christian view of God's relation to the universe, as distinguished from the Deistic and from the Pantheistic view ?

5. Compare the Unitarian and Trinitarian conceptions of God.

6. In what respects can we regard man as "made in the image of God ?"

Queen's University Examinations: April, 1904.

B.D. EXAMINATION.

Systematic Theology.

SECOND PAPER.

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1. State the leading features of the O.T. doctrine of sin.

2. How is sin represented by our Lord in the Gospels?

3. Explain Paul's teaching regarding "the flesh" as the seat of sin.

4. In what sense can it be said that the guilt of Adam's sin is imputed to us?

5. Examine the theory which ascribes evil to the limitations and imperfections of human nature.

6. Examine the statement, "Sin is selfishness."

Queen's University Examinations: April, 1904.

B.D. EXAMINATION.

Systematic Theology.

THIRD PAPER.

1. State and examine Anselm's idea (1) of sin, and (2) of satisfaction.

2. Cite and examine instances of Paul's teaching regarding the death of Christ as the objective ground of the Divine forgiveness of human sin.

3. Examine the following statement: "Remission of sins is impossible because spiritual laws exact the amount of penalty, visible and invisible, to the veriest jot and tittle, which the deed of violation deserves."

4. How may the Atonement be regarded as a development of the Incarnation?

5. What is meant, in Campbell's theory, by Christ's expiatory confession of our sins?

6. Write an expository note on the words (Heb: 2; 9), "that by the grace of God he should taste death for every man."

Queen's University Examinations : April, 1904.

B.D. EXAMINATION.

Systematic Theology.

FOURTH PAPER.

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1. Indicate some of the special difficulties in the study of the history of the Church.

2. What, according to Hatch, were the functions of the bishop and deacon in the early Church ?

3. What causes led to the supremacy of the episcopate ?

4. Trace the growth of the idea of the clergy as a distinct class.

5. Discuss the meaning and use of the term "ecclesia."

6. Discuss the nature and extent of the authority of the Apostles.

Queen's University Examinations: April, 1904.

EXAMINATION FOR B.D.

Holy Scripture, N.T.

I. General.

1. State the didactic aim of Matthew, Luke, and John, respectively, in writing their Gospels.

2. What is the peculiar contribution of Luke to our Lord's teaching? Indicate the section of the Gospel in which it is to be found.

3. What is the theme of the discourses in the fourth Gospel?

4. What lesson is taught by the parable of (1) the unjust steward, (2) the children in the market place, (3) the two sons?

5. Give an account of (1) the Council of Jerusalem, and state the decrees which it ordained, (2) Paul's visit to Ephesus and his labours there.

6. Give an outline of the argument running through the Epistle to the Hebrews.

II. Special. MARK.

1. Specify the distinct stages in the ministry of Jesus.

2. In what parable does our Lord express disappointment with the result of His general ministry among the people?

3. What are the points of difference in the two narratives of feeding the thousands?

4. Give the account of the visit of the women to the tomb, according to this Gospel.

5. Write notes on (1) whosoever would save his life shall lose it, (2) take heed, beware of the leaven of the Pharisees and the leaven of Herod. (3) Why callest thou Me good? (4) Can the sons of the bridegroom fast while the bridegroom is with them? (5) He is not the God of the dead, but of the living.

Queen's University Examinations: April, 1904.

B.D. EXAMINATION.

Holy Scripture, O.T.

General.

1. Write a brief account of the Exodus from Egypt.

2. Sketch the character and reign of David.

3. Give a synopsis of the Book of Ecclesiastes.

4. Relate concisely the story of Jonah.

5. Give the context of the following: (*a*) "Ye will bring down my gray hairs with sorrow to Sheol." (*b*) "Curse ye Meroz, saith the angel of Jehovah, curse ye bitterly the inhabitants thereof." (*c*) "There the wicked cease from troubling; and there the weary are at rest." (*d*) "The fathers have eaten sour grapes and the children's teeth are set on edge." (*e*) "He is like a refiner's fire, and like fuller's soap."

Special.

1. Sketch briefly the prophetic career of Isaiah.

2. Outline Isaiah's doctrine of God.

3. What are the main features of his Messianic teaching?

4. Give the context of the following: (*a*) "Cease to do evil, learn to do well." (*b*) "This very day shall he halt at Nob." (*c*) "With joy shall ye draw water out of the wells of salvation." (*d*) "When thou passest through the waters I will be with thee." (*e*) "Bel boweth down; Nebo stoopeth."

5. Quote passages from the Second Isaiah illustrating his doctrine of the "Servant of Jehovah."

Queen's University Examinations : April, 1904.

B.D.—O.T. Section.

THE BOOK OF JOB I.–V.

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1. Discuss briefly any two of the following subjects: (1) The date and structure of the book. (2) The difference between the Job of the prologue and the speeches. (3) The Satan-idea in this book and the O.T. generally. (4) The various solutions of the problem of suffering supposed to be given in this book.

2. Translate II. 1, 2, IV. 1-3. Explain מִלֶּיךָ

3. Translate with explanatory notes I. 5.

4. Parse or analyse each word in the following verses: III. 1-4.

Queen's University Examinations: April, 1904.

EXAMINATION FOR B.D.

Comparative Religion.

FOURTH PAPER.

1. Define Animism, and state the characteristics of the animistic religions.

2. What was the teaching of Confucius regarding (1) worship, (2) the regulation of conduct?

3. What are the leading differences between the teaching of Confucius and Lao-tse?

4. Show wherein the strength and the weakness of Hinduism lie.

5. Describe the relation between Buddhism and Brahmanism.

6. State briefly the circumstances in which his first revelations came to Mohammed.

7. Give an account of the origin and composition of the Koran.

8. What are the indispensable elements in religion for which Mohammedanism does not provide?

9. Discuss the reasons for the rapid growth and diffusion of Mohammedanism.

10. What are the points of affinity between Christianity and Buddhism?

Queen's University Examinations: April, 1904.

B.D.—Old Testament Section.

THE BOOK OF EZRA.

Aramaic.

1. Discuss the suitableness of the name "Aramaic" in comparison with the older term "Chaldee."

2. Mention some points of similarity and difference between the two forms of speech.

3. Translate I. 1-3.

4. State briefly (1) the contents of the book, (2) the books to which it is related, (3) the period of history with which it deals, (4) the probable date of its composition.

5. Give the Aramaic forms for the king, kings, the kings, God, heaven.

6. Translate IV. 12. Note the peculiar form of the verb "to be."

7. Parse, or analyse, each word in V. 1, 2.

8. Translate word by word VII. 13.

Queen's University Examinations: April, 1904.

For Degree of LL.B.

DICEY'S THE LAW OF THE CONSTITUTION.
BOURNOT'S CONSTITUTIONAL DOCUMENTS.

1. Distinguish between a Legal and a Historical view of Constitutions.

2. Distinguish between a Sovereign and a non-Sovereign law-making body. Give illustrations of each.

3. What limits may there be to the powers of a Sovereign Parliament?

4. Compare the Rule of Law in England with that in France, especially as represented by the Droit Administratif.

5. The 39th article of Magna Charter reads:

> Nullus liber homo capiatur, vel imprisonetur, aut dissaisiatur' aut utlagetur, aut exuletur, aut aliquo modo destruatur, nec super eum ibimus, nec super eum mittemus, nisi per legale judicium parium suorum vel per legem terrae."

Mention in later history any infringements of this principle.

6. What restrictions may there be to freedom of discussion?

7. What are the constitutional relations between England and Canada?

8. State briefly the terms of the Union Act of 1840.

9. Under the British North American Act of 1867 what powers has the Governor-General the right of exercising?

MEDICINE.

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Junior Practice of Medicine.

1. Describe all the râles heard in a case of acute bronchitis, and discuss briefly their mode of production and clinical significance.

2. Give the symptoms and physical signs of hypertrophic emphysema, mentioning the diseases with which it is most frequently associated.

3. Give the etiology, symptoms and treatment of angina pectoris.

4. Describe the blood changes in (*a*) chlorosis, (*b*) pernicious anemia, (*c*) spleno-medullary leukaemia, and give the symptoms and treatment of any *one* of these conditions.

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Senior Practice of Medicine.

1. Describe, in the order of development, the symptoms of alcoholic cirrhosis of the liver, stating the pathological condition on which each symptom depends.

2. Describe a case of cancer of the stomach, and state the points of diagnosis between this and other gastric affections with which it may be confounded.

3. Write a short description of acne vulgaris. Give directions as to prophylaxis and treatment.

4. Give the symptoms and physical signs of acute lobar pneumonia. Enumerate the complications and sequelae of this affection.

5. What general principles would guide you in determining whether a given paralysis was of cerebral, spinal, or peripheral origin?

6. Describe the anatomic alterations, symptoms, and treatment of tabes dorsalis (locomotor ataxia).

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Junior Materia Medica.

1. Define: Alkaloid, glucoside, amaroid, gum resin, and fixed oil. Examples.

2. In what ways may the system be put under the influence of opium? What influence has opium upon brain and respiration? Give alkaloidal strength of powdered opium, laudanum, paregoric.

3. What is the dose of tinct. nux vomica? Name its alkaloid with dose. What influence has nux vomica on the spinal cord? Name four indications for its use.

4. Name the various processes necessary in the preparation of a tincture. How does a tincture differ from a liquid fluid? How would you prepare a solid extract?

5. What is a volatile oil? Name several. How do they influencn respiratory tract and genito urinary tracts? What is the usual dose?

6. Define antipyretic. Classify antipyretics. Mention the principal antipyretics with dosage. Discuss their relative values in fever.

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Senior Materia Medica and Therapeutics.

1. Squill. (*a*) Give the principal preparations with their doses. (*b*) What precautions are to be taken in dispensing? (*c*) Give the influence upon the heart and kidney.

2. Give the alkaloidal strength of tinct. nux vomica, tinct. opium, tinct. digitalis, tinct. belladonna, and tinct. aconite.

3. Write a prescription for diarrhoea in an adult, (1st) for a liquid, (2nd) for a pill.

4. Diphtheria antitoxin. (*a*) How prepared, (*b*) dose, (*c*) how administered, (*d*) most favourable site for administration, (*e*) results expected, (*f*) how often repeated?

5. Digitalis, veratrum viride, nitro-glycerine. Discuss their relative values in valvular diseases of the heart.

6. Criticize the following prescription:

Tinct. Iron	dr. ii.
Tinct. Gentian	oz. iii.
Permanganate of Potash	dr. iiss.
Potassium chlorate	dr. ii.
Glycerine	oz. ss.
Tinct. Cardamom Compound	qs.
Water	a. oz. vi.

Mix.

Sig.—Two drachms after meals.

7. Discuss the values of aconite phenacetine and baths in fevers.

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Junior Anatomy.

1. Describe the upper extremity of the femur.

2. The wrist-joint: (*a*) To what class of joints does it belong? (*b*) Name bones entering into its formation. (*c*) Name ligaments of wrist-joint, giving their attachments.

3. In a dissection of the gluteal region an incision is made through the gluteus maximus close to its origin and the muscle reflected outwards. Name in some order the structures thus exposed.

4. Give the boundaries and floor of the superior carotid triangle.

5. Give the attachments of the following ligaments: (*a*) Internal lateral of elbow, (*b*) anterior annular of ankle, (*c*) stylo-mandibular, (*d*) lesser sacro-sciatic.

6. Describe the following muscles under the headings *Origin*, *Insertion*, and *Action:* (*a*) Masseter, (*b*) rectus abdominis, (*c*) adductor magnus, (*d*) supinator longus, (*e*) obliquus oculi inferior.

Queen's University Examinations; March, 1904.

FACULTY OF MEDICINE.

Senior Anatomy.

1. Give the situation of Meckel's Ganglion, its branches of communication, and its branches of distribution......*15*

2. Describe the horizontal portion of the frontal bone..*15*

3. Describe the oesophagus, giving its relations, its nerve supply, and blood supply....................................*15*

4. Give the disposition of the pleura, its nerve and blood supply...*10*

5. Describe the duodenum, giving its relations, its blood supply *10*

6. Name the ligaments of the urinary bladder, giving their attachments. Give the relations of the fundus of the bladder..*10*

7. Give the attachments, nerve and blood supply of the scalenus anticus, serratus magnus, transversalis abdominis, vastus externus, and supinator brevis. *10*

8. Give the course and distribution of the posterior interosseous nerve, the anterior tibial nerve, the subscapular artery..*15*

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Junior Medical and Surgical Anatomy.

1. Actions of the following muscles: Serratus magnus, deltoid, coraco-brachialis, pronator radii teres, pectoralis major, extensor communis digitorum, adductor magnus, sartorius, psoas, gluteus medius, gastrocnemius, tibialis anticus. *24*

2. (*a*) Define briefly: Anatomical neck, surgical neck, and the epiphyseal line of humerus. (*b*) What deformity may arise from muscular action in separation of the upper epiphysis of humerus?..*14*

3. Landmarks for: Shoulder joint, coracoid process, subscapular artery, musculo-spiral nerve, elbow joint, media nerve in forearm, upper and lower limits of wrist joint, spine of ischium, long saphenous vein, anterior crural nerve, great sciatic nerve, posterior tibial artery, external saphenous nerve, dorsalis pedis artery, bony prominences on inner side of foot..*24*

4. Explain dislocation of radius downwards..........*10*

5. Position assumed by the limb in synovitis of hip joint and why?.................. ....*10*

6. Explain "apparent lengthening" in morbus coxæ...*8*

7. Expose the median nerve in the lower part of forearm for the purpose of stretching it........................*10*

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Senior Medical and Surgical Anatomy.

1. (*a*) Give the action of the following muscles: Biceps, pectoralis minor, supinator longus, flexor carpi ulnaris, extensor communis digitorum, gluteus maximus, obturator internus, semi-membranosus peroneus longus, rectus femoris.

(*b*) Landmarks for axillary artery, ulnar nerve, synovial sheaths in palm, femoral artery, and external popliteal nerve...*16*

2. Landmarks for the heart (including valves and cavities)..*12*

3. Boundaries of Traube's semi-lunar space? Cause of the note elicited, normally, on percussion over this area? In what disease is this normal note lost?................*12*

4. Make a diagram outlining the liver. Explain the so called "ball valve" action of biliary calculi..............*14*

5. Illustrate by statistics the relative frequency of situation and the chances of perforation thereof, in gastric ulcers. Boundaries of the cavity of the lesser omentum...*10*

6. Give some anatomical reasons for the presence of hernia in the lower portion of the abdominal wall. In what direction would you reduce the bowel in oblique inguinal hernia.?...*10*

7. Describe from an anatomical standpoint the "gridiron" operation for appendicitis. Give some explanation of

the fact that pain in the early stages of appendicitis may be referred to distant parts of the abdomen..............*12*

8. (*a*) Illustrate by a diagram the effects on vision of a tumor involving the right occipital lobe.

(*b*) Give chief symptoms arising from a tumor situated at the upper part of the Rolanderic area and trace the motor tracts from this area to the peripheral nerves.....*14*

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Junior Surgery.

1. How is the blood pressure regulated as exemplified by injury? *10*

2. What changes occur in consecutive order in the blood and blood vessels in acute inflammation?.........*10*

3. Name the three most common varieties of sarcoma and contrast it in parallel columns with that form of cancer that resembles it....................................*16*

4. Clinically, traumatic fevers are divided into benign and malignant. Name the latter and select one, and give its diagnosis and treatment................................*15*

5. What is an embolus? How formed? What is its course and termination?...................................*13*

6. Exemplify by a simple experiment the different forms of blood clot occurring in the living body and what may be the results...*6*

7. Give the causes of inguinal bubo other than common inflammation. Give diagnosis and treatment......*15*

8. Name the common varieties of gangrene. Describe local symptoms of senile gangrene. What changes in operation of recent years claim to have effected much better results?..*15*

FACULTY OF MEDICINE.

Senior Surgery.

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1. How, when, and where would you perform Colotomy? Give in a brief manner the order of the operation..*25*

2. Indicate the position, splints, bandages, &c., and their mode of application in Colle's and Pott's fracture, and the outer third of the clavicle..........................*20*

3. Summoned to a young man suffering from inguinal hernia in whom is found very severe symptoms of obstruction and which has occurred very suddenly. What particular form is it likely to be, and what is the duty of the surgeon? *20*

4. Describe the course and structure of a node.......*10*

5. Name the two most frequent dislocations occurring in the upper extremity exclusive of the shoulder. What obstacle oppose reduction?......... ....*10*

6. Contrast Syme's and Pirogoff's operation at the ankle, and draw a diagram of the incisions in the skin...*15*

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Junior Obstetrics and Pediatrics.

1. Discuss (*a*) the nutrition of the embryo, (*b*) the circulation of the foetus.

2. Under what conditions may hemorrhage from the uterus occur, during pregnancy?

3. What are the usual causes of delay in the first stage of labour? What are the dangers?

4. How would you treat a case of breech presentation, left sacro-anterior?

5. Compare cow's milk and human milk as to percentage composition, and note the necessary modifications in cow's milk to be used as infant food.

6. What are the causes of vomiting in infants? Give the clinical features of a case which would lead you to suspect some brain-lesion.

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Senior Obstetrics and Gynaecology.

(NOTE—Only six out of the eight questions to be answered, of which three must be Obstetrical and three Gynaecological. The number of marks allotted for each question is the same.)

Obstetrics.

1. Give the diagnosis of a shoulder presentation. With such a case, and the membranes ruptured, relate briefly the management until complete delivery of the child.

2. What treatment should be adopted to resuscitate an apparently still-born child?

3. What is meant by *inertia uteri?* Give the causes, danger, and treatment of inertia in the third stage of labour.

4. Give the clinical appearance of puerperal (septic) vaginitis. State the treatment to be adopted in such form of infection.

Gynaecolgy.

5. Give the causes of cystitis in the female. Relate briefly the treatment in an acute case.

6. What symptoms would lead you to suspect malignant disease of the uterus? How may the diagnosis be confirmed?

7. Define dysmenorrhoea. Classify the varieties. Give the causes, symptoms, and treatment of obstructive dysmenorrhoea.

8. Give the causes and symptoms of intra-pelvic displacement of the ovary.

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Animal Biology.

1. Specify causes of the struggle for existence. Indicate different forms of the struggle, and point out some of the results.

2. Give the general characters of the Arthropoda. Distinguish the classes. Name some parasitic arachnoidea and explain how they can be exterminated.

3. Show how a bird's locomotion and its habits of life affect the structure of its body.

Junior Physiology.

1. Classify the teeth in man, and describe the process of mastication.

2. Locate the thyroid gland, and explain how its function has been determined.

3. Make two drawings, one of a transverse section of an artery, and one of a vein. Explain why they differ in thickness and structure. How is the velocity of the blood made to vary in particular organs?

4. Explain why a man cannot live long upon a purely carbohydrate, or fat diet? How is fat digested and assimilated?

5. Give the composition of urine. Specify circumstances which cause variations in the quantity excreted.

6. What is the function of the semi-circular canals? How has this been demonstrated?

7. Describe the mechanism necessary to carry out a reflex act. Give examples.

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Pathology—Third Year.

(N.B.—Answer five questions only.)

1. Describe the process of tubercular inflammation terminating in chronic or cold abscess formation.

2. What are the causes of general fatty degeneration and what organs are more particularly affected? How would you differentiate between this process and fatty infiltration in heart muscle?

3. What are emboli and whence do they commonly originate? How may they may be classified? What effects may be produced at point of impaction and in parts beyond by a simple embolus?

4. What are the distinguishing characters of carcinomas? Classify these tumors according to cell type and describe any one variety in detail.

5. Describe shortly the conditions which lead to (*a*) incompetence, (*b*) stenosis of mitral valve.

6. Describe the causes, organs attacked, and general lesions produced by waxy or lardaceous degeneration. What are the distinguishing characters of the waxy deposit?

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Pathology—Fourth Year.

(N.B.—Answer five questions only.)

1. Describe the immediate and remote changes in the spinal cord produced by an attack of acute poliomyelitis anterior (Infantile Paralysis). What changes occur in muscles affected ?

2. What are causes, usual sites, and possible terminations of the round or peptic ulcer of the stomach ?

3. Hypertrophy of prostate. What is the nature of this enlargement and what effects may be produced in urethra and bladder by it ?

4. What are the causes and the varieties of cirrhoses seen in the liver ? Describe the gross and microscopic appearances of the common form.

5. Describe the usual changes seen in a knee joint with advanced osteo-arthritis (arthritis deformans) and explain their development.

6. What are the common causes of acute broncho-pneumonia ? Describe the gross and microscopic changes in a lung in this affection, where lesions terminate in resolution.

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Senior Physiology.

1. What is the nervous mechanism for the secretion of gastric, and of pancreatic juice?

2. Describe the external endings of the 2nd cranial nerve, and trace their path inwards to their destinations in the central nervous system.

3. Enumerate the neurons and trace their pathway from the soles of the foot to their respective destinations in the central nervous system.

4. Describe the minute structure and function of the ductless glands.

5. Trace the physiological history of fat.

6. Specify the functions of the cerebellum, and indicate the nature of the evidence upon which its functions have been determined.

7. Discuss the relation of the respiratory to the vascular system.

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Histology.

1. Epithelial tissue. (*a*) Classify. (*b*) Give the distinguishing characteristics and distributions of any one class.

2. Name in order from the inner to the outer surface the layers composing the walls of the following structures: Fallopian tube, ureter, trachea, oesophagus, uterus, bladder and duodenum. What kind of tissue is found on the inner surface of each?

3. Give the histology of lymphatic gland (L and H power). Distinguish from spleen.

4. Write explanatory notes on: Adenoid tissue, Glisson's capsule, utricular glands, tunica albuginea and glomerulus.

5. Draw, describe, and identify the specimens submitted.

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Junior Chemistry.

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1. Water is a compound of hydrogen and oxygen in the the proportion one to eight by weight. Why then is the formula not written H O with $0=8$? Explain fully.

2. Write an equation for the decomposition of ammonia into its elements, and deduce the relative volumes of the three gases.

3. (*a*) Show by formulas the valencies of the elements in sulphuric acid, in ferric sulphate, and in calcium carbonate. (*b*) Point out how the valency of the metal varies in the salts of iron. Also in the salts of mercury. Use formulas to illustrate.

4. (*a*) What are the sources of iodine? (*b*) How is it manufactured? (*c*) How is hydriodic acid made (equation)? (*d*) What are the solvents for iodine?

5. What volume of ethylene ($C_2 H_4$) is equal in weight to 15 litres of methane (CH_4)?

6. (*a*) Describe the principal ways in which chlorine is manufactured (large scale). (*b*) How does it act as a bleaching agent? (*c*) What is the composition of "bleaching powder"?

7. (*a*) State the law of multiple proportions. (*b*) Show that it applies to two oxides of a metal containing respectively 83% and 55% of the metal.

8. Give an outline of either the *nitrogen-phosphorus or the oxygen-sulphur* family of elements, bringing out resemblances and gradations in properties.

9. (*a*) How is sulphuretted hydrogen made (equation)? (*b*) Give the formulas of six sulphides which can be precipitated in the presence of mineral acids. (*c*) Has the concentration of the acid any influence on the precipitation? Explain.

10. Hydrochloric acid is added to a solution contain-mercurous nitrate, silver nitrate, and lead nitrate. What takes place? Equations.

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Senior Chemistry.

1. (*a*) How is formic adelhyde made?

(*b*) What are its properties?

(*c*) What is formed by its oxidation (equation)?

2. Write graphic formulas for the following:

(*a*) Acetic acid.

(*b*) Lactic acid.

(*c*) Oxalic acid.

(*d*) Urea.

(*e*) Benzene.

3. (*a*) Indicate the classes of double cyanides of the of the metals, pointing out their characteristic differences. (*b*) How are methyl cyanide and methyl isocyanide made? (*c*) Describe the reactions which indicate their chemical constitution.

4. (*a*) From what sources is glycerine obtained?

(*b*) Give an outline of its manufacture.

(*c*) Write its graphic formula.

(*d*) Write the equation for the formation of "nitro-glycerine."

5. (*a*) How is nitro-benzene made? Equation.

(*b*) What compound is formed by the action of nascent hydrogen on it? Equation.

6. (*a*) How is chloroform manufactured? Equation. (*b*) Describe its properties.

7. An organic compound has the following composition :

Carbon..............................51.9 %.
Hydrogen ....13.1 %.
Oxygen..............................35.0 %.

The gas density is 22.7. Calculate the molecular formula.

8. (*a*) What is meant by *optical activity?*

(*b*) Write the graphic formulas of two optically active compounds.

(*c*) Indicate in the formulas in (*b*) what is meant by an *asymmetric carbon atom.*

9. Show by examples from human physiology how chemical equilibrium is influenced by gaseous pressures.

10. (*a*) Explain the meaning of *osmotic pressure.*

(*b*) How is the vapour pressure affected by solid substances dissolved in it ?

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Sanitary Science,

1. How would you test a room as to the efficiency of its ventilation? What are the average fresh air requirements of adults per hour necessary for purity of air in rooms and how do you arrive at your figures?

2. What measures would you advise to purify or render innocuous a water for domestic use? What diseases are commonly transmitted through water?

3. Describe in detail some one method of treatment of sewage.

4. State how you would disinfect (*a*) a room and its contents after diphtheria, (*b*) sputum from tuberculosis.

5. State fully the measures you would advise to be taken to prevent further infection where cases have developed of (*a*) smallpox, (*b*) diphtheria, (*c*) Asiatic cholera, (*a*) tuberculosis of lungs.

6. Describe life cycles of trichina spiralis and of parasite of which cysticercus cellulosae is one stage.

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Diseases of the Eye, Ear, Nose, and Throat.

1. Discuss the symptoms, etiology and treatment of senile cataract. Describe the operation of simple extraction.

2. In what conditions of the eye is the galvano-cautery properly applied? Discuss its value in each condition.

3. A patient has earache. How will you proceed to make a diagnosis? State in detail the possible causes and the manner of dealing with each.

4. State the symptoms, causes, and treatment of empyema of the maxillary antrum.

5. Discuss the etiology, symptoms and treatment of acute laryngitis.

Queen's University Examinations: March, 1904.

FACULTY OF MEDICINE.

Medical Jurisprudence and Toxicology.

(All questions of equal value. Only five questions to be answered.)

1. Name the signs of death and outline briefly in the order of their occurrence the putrefactive changes that take place in a dead body, stating the time required for the development of each change.

2. Death by hanging. (*a*) To what different causes may death be due and why? (*b*) What post-mortem signs would you expect to find?

3. Give symptoms, treatment, fatal period, fatal dose, and post-mortem signs in a case of poisoning by lead acetate.

4. Define rape and explain fully. (*a*) The legal view of what constitutes the act. (*b*) How you would examine a suspected case, giving tests for semen.

5. Give symptoms, treatment, fatal period, and fatal dose in a case of poisoning by strychnine.

6. (*a*) How would you examine a patient suffering from mental disease? (*b*) How does the law in Ontario and Quebec require such cases to be certified?

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